Weston Solutions, Inc.
20 North Wacker Drive, Suite 1210
Chicago, IL 60606-2901
312-424-3300 • Fax 312-424-3330
www.westonsolutions.com

November 18, 2011

Mr. Len Zintak
On-Scene Coordinator
US Environmental Protection Agency Region 5
77 West Jackson Boulevard (SE-5J)
Chicago, IL 60604-3507

Subject: **Bautsch-Gray Mine Site**
Jo Daviess County, Illinois
Technical Direction Document No. S05-0001-0911-035
Document Control No. 874-2A-ASJZ
Work Order No. 20405.012.001.0874.00

Dear Mr. Zintak:

Under Technical Direction Document (TDD) No. S05-0001-0911-035, the United States Environmental Protection Agency (U.S. EPA) tasked the Weston Solutions, Inc. (WESTON®), Superfund Technical Assessment and Response Team (START) to provide engineering support and oversight of removal activities at the Bautsch-Gray Mine Site in Jo Daviess County, Illinois (the Site). The removal activities were conducted over 1 year during the following time periods: from approximately September 9 to November 9, 2010; from July 6 to August 30, 2011; and from September 19 to 23, 2011. Removal activities consisted of the removal of lead- and arsenic-contaminated soil at a residential property and construction activities at the mine property to stabilize mine tailings and control surface water runoff. Additional removal activities tentatively are planned for 2012.

This letter report discusses the Site description, Site background, removal activities to date, and presents a summary of the removal activities.

SITE DESCRIPTION

The Site is located between 745 and 800 South Blackjack Road in Jo Daviess County, Illinois (**Figure 1** in **Attachment A**). The Site is located approximately 4 miles south of downtown Galena, Illinois, and includes a former Bautsch-Gray lead and zinc mine property that occupies approximately 55 acres, a residential property located at 746 South Blackjack Road that occupies approximately 5 acres, and a horseshoe-shaped retention area containing mine tailings located at 798 South Blackjack Road that occupies approximately 4.8 acres (**Figure 2** in **Attachment A**). The Site is located in a rural, agricultural, and residential area. The Mississippi River is located approximately 2 miles west of the Site. The meridian coordinates of the approximate center of the mine tailings pile at the Site are 42° 21’ 26.72” North latitude and 90° 23’ 54.85” West longitude.

SITE BACKGROUND

The Bautsch-Gray Mine was an operational lead and zinc mine from the 1850s until operations ceased in 1975. Since then, tailings from the mine property have continued to erode and migrate toward residential properties, wetlands, and fisheries.

After large rain events in August 2009 and again in July 2010, contaminated mine tailings were flushed from the main tailings pile across South Blackjack Road, onto the residential property at 746 South Blackjack Road, and into the horseshoe-shaped area at 798 South Blackjack Road. According to the Jo Daviess County Highway Department, this problem has apparently been frequent during rainy seasons over the last several years. Vehicles that travel on South Blackjack Road create and disperse airborne dust that originates from mine tailings residue on and near the road.

During the week of October 6 through 8, 2009, U.S. EPA and WESTON START conducted a site assessment (SA) at the Bautsch-Gray Mine Site. During the SA, Site soils were field screened using an x-ray fluorescence (XRF) instrument (InnovX) and 36 surface soil samples were collected. Residential well samples and surface water samples of runoff also were collected. U.S. EPA identified several areas of contaminated soil and mine tailings with lead and arsenic concentrations exceeding the regulatory removal action level of 1,200 parts per million (ppm) for lead and the Agency for Toxic Substances and Disease Registry (ATSDR) screening level of 25 ppm for arsenic. The areas exceeding the action and screening levels included around and on the mine tailings pile, the former tailings pond known as the horseshoe-shaped area, in and around ditches along South Blackjack Road, and on the adjacent residential property at 746 South Blackjack Road. The residential well water sample collected from 746 South Blackjack Road contained lead at a concentration exceeding the U.S. EPA Maximum Contaminant Level (MCL) for drinking water of 0.015 milligram per liter (mg/L).

An action memorandum was signed on May 17, 2010, authorizing a removal action at the Site.

Before removal activities began at the Site, the potentially responsible parties (PRP) for the Site contracted the installation of a reverse osmosis (RO) drinking water filtration system for the private well at the residence located at 746 South Blackjack Road under an Administrative Order by Consent (AOC). Filter system installation was completed in July 2010, and operation and maintenance of the system by the PRPs will continue for 2 years.

REMOVAL ACTIVITIES

This section describes the removal activities conducted at the residence at 746 South Blackjack Road, construction activities conducted in 2010 and 2011 at the mine property, air monitoring and sampling activities, and residential well sampling activities. **Attachment B** contains a photographic log of the all activities conducted at the site during the period covered in this report.

Removal Activities at 746 South Blackjack Road

U.S. EPA, WESTON START, and LATA-Kemron, the Emergency and Rapid Response Services (ERRS) contractor, mobilized to the Site on September 9, 2010, to begin removing mine tailings and impacted soil from the residential property at 746 South Blackjack Road. The residential removal cleanup levels were established at 400 ppm for lead and 25 ppm for arsenic. The PRPs had installed temporary perimeter safety fencing around the property to restrict Site access prior to construction activities while allowing the property owner access to the residence.

On September 14, 2010, excavation of contaminated soil began. The ERRS contractor used excavators to load soil into dump trucks. **Figure 3** in **Attachment A** shows the areas excavated and the approximate depths of the excavated areas. Soil was excavated down to 6 to 18 inches below ground surface (bgs). Work around several large trees was completed using hand-held shovels in order to preserve the trees and their associated root systems. Under the gravel driveway northwest of the residence, a large water well (4-foot-diameter and 32.5 feet deep) was uncovered during excavation. The Jo Davies County Health Department was notified, and a representative was on site during well abandonment procedures, which included filling the well with alternating layers of bentonite and gravel.

WESTON START conducted soil screening and sampling to determine the area and depth of excavation needed for remediation. Site soil was field screened using an XRF instrument, the Innov-X Alpha Model 4000A, to determine metals concentrations. The screening process involved removing any sod layer present and field screening underlying soil *in situ* using the XRF instrument.

Clean backfill was placed over the excavated areas to serve as a barrier to direct contact exposure and to greatly reduce migration of contaminants from the area. In some areas, lead levels in soil at 18 inches bgs remained elevated above the residential removal cleanup level of 400 ppm. The ERRS contractor placed plastic barrier fence (orange snow fence) over these areas at 18 inches bgs before backfilling the area with clean soil. The fence was secured with metal stakes as needed. The road shoulder was excavated to only 6 inches bgs to preserve the structural integrity of the roadbed and slope. In some of these areas, plastic barrier fence was installed. **Figure 3** in **Attachment A** shows areas where plastic barrier fence was placed before backfilling.

The impacted soil was transported back across South Blackjack Road to the center of the mine tailings pile. A total of approximately 2,600 cubic yards (325 loads or approximately 700 tons) of contaminated soil and mine tailings was excavated from the residential property at 746 South Blackjack Road on October 8, 2010.

Confirmation soil samples also were collected to verify field screening readings before backfilling. A five-point composite sample was collected from an area of less than 5,000 square feet (ft^2) as specified in the U.S. EPA "Superfund Lead-Contaminated Residential Sites

Handbook." These samples were submitted for total metals laboratory analysis. A total of 30 confirmation soil samples were collected from 746 South Blackjack Road from some of the lettered grids shown on **Figure 3** in **Attachment A**. **Attachment C** presents the confirmation soil sampling results.

During excavation, the roadway and driveway culvert were reconfigured to maintain proper storm water drainage. An existing 18-inch-diameter storm water culvert previously directed rainwater from the main tailings pile under South Blackjack Road and into the road ditch along the residential property. This 18-inch-diameter storm water culvert temporarily was plugged at both ends to prevent mine tailings migration from water runoff entering the residential property. A smaller drainage culvert was found on the residential property during excavation of the driveway. This culvert was removed along with the contaminated soil and mine tailings, and a replacement drainage culvert was installed to maintain property drainage around the driveway.

Excavations were backfilled with clean soil from September 30 to October 12, 2010. Locally-sourced replacement topsoil and backfill were used. Prior to delivery to the Site, the material was tested, and laboratory results confirmed only background levels of metals. At the request of the property owner, the material also was analyzed for pH by a laboratory. The pH was neutral and varied from existing Site soil by less than 1 standard unit. **Attachment D** presents the laboratory results for the backfill. To replace the driveway, crushed gravel was delivered to the Site and spread and compacted over the original driveway area.

Dump trucks delivered clean fill and topsoil to the Site, and heavy equipment compacted it to the original grade. A total of 46 loads or 920 cubic yards of soil was backfilled. To restore grass on the property, grass seed was planted with a protective cover of either loose hay or a hay matting layer. Around the front and north sides of the house, sod was installed. Landscaping activities at 746 South Blackjack Road were completed on October 14, 2010, with periodic watering of grass sod and seed continuing for an additional 2 weeks.

In late July and early August 2011, major storm events caused additional mine tailings to migrate onto the residential property at 746 South Blackjack Road. One storm event on July 27 and 28, 2011, released approximately 13 inches of precipitation in a 12-hour period, which greatly exceeded the 100-year design storm event and caused significant damage to roads and bridges in the Site area as well as to on-site sedimentation ponds. The XRF instrument was used to screen the soil at the residential property, and areas exceeding the removal cleanup levels were discovered in the top layer of the soil. Contaminated soil was excavated from the property, and this work was completed during the last week of August 2011. Landscaping at the property was completed during the week of September 19, 2011.

2010 Construction Activities at the Mine Property

Before and throughout construction activities at the mine property, WESTON START engineers performed hydrogeological modeling and designed structures to mitigate off-site mine tailings

migration and to control the release rate of surface water runoff. At the direction of U.S. EPA, the engineering design was developed to control a maximum of a 100-year, 24-hour rainfall event. The original engineering design specified the following:

1. Construction of five storm water detention ponds, Ponds 1 though 5, with release rate control discharge pipes and overflow weirs
2. Construction of a storm water drainage ditch to divert 50 acres of uphill watershed runoff around the east and north sides of the mine tailings area
3. Construction of drainage ditches between storm water detention ponds
4. Removal of contaminated soil and repair of the drainage ditch along South Blackjack Road
5. Reconfiguration to allow stabilization by vegetation of the mine tailings berm along South Blackjack Road

Figure 4 in **Attachment A** shows the original engineering design diagram for the Site. This design later was modified in 2011 which is discussed below under 2011 Construction Activities.

Throughout the construction activities, WESTON START conducted engineering design implementation oversight and Site health and safety oversight and assisted with Site documentation (written and photographic documentation) for cost control, cost recovery, and Site restoration purposes. LATA-Kemron, the ERRS contractor, conducted all construction activities. A survey subcontractor frequently was on site to determine pre-existing elevations at the mine property and to ensure that design specifications were being met during construction activities.

In 2010, the construction of detention Ponds 2, 3, 4, and 5 were completed. The construction of each pond included the following: construction of downgradient berms for each pond to specified elevations, compaction and configuration, excavation of mine tailings to the specified design depth and area (if needed), installation of water discharge control stand pipes and outfall pipes, and construction of overflow weirs lined with 6-inch rip rap stone.

The construction of the storm water diversion ditch around the Site also was completed in 2010. **Figure 4** in **Attachment A** shows the original design of the diversion ditch in blue, yellow, green, purple, and brown to depict the different segments of the ditch. The purpose of the original design was to direct clean watershed surface water runoff upgradient of the Site along the perimeter of the mine tailings to the existing drainage ditch on Blackjack Road. In order to accommodate the additional flow in the ditch under South Blackjack Road, the exiting 36-inch-diameter culvert into the horseshoe-shaped area on the west side of South Blackjack Road would have required expansion by installing six additional 36-inch-diameter culverts. Upon field inspection of the area and a survey of the northeast corner of the Site, the design was modified to route the diversion ditch to discharge to the original watershed as shown in **Figure 5** in

Attachment A. This value engineering approach to the design resulted in significant savings by reducing the effort and cost of the project. The construction of the ditch included excavation to the required depth and slope in accordance with the engineering diagrams. The design specified the placement of a geotextile liner and then clean soil with grass in low-slope segments and rip rap stone in higher-slope segments of the ditch to prevent erosion and contact with underlying soil and mine tailings.

Before and throughout construction activities at the mine property in 2011, WESTON START engineers performed hydrogeological modeling and designed structures. Cross-section diagrams were prepared as needed to assist the ERRS contractor in meeting construction specifications. It was decided to move Pond 1 to the south side of the mine property and west of Pond 5. The move allowed use of the existing topography in the construction of Pond 1. **Figure 5** in **Attachment A** shows the final as-built drawing of the storm water detention ponds, drainage ditches, and culverts at the mine property.

Throughout the construction activities, WESTON START conducted engineering design implementation oversight and Site health and safety oversight and assisted with Site documentation (written and photographic documentation) for cost control, cost recovery, and Site restoration purposes. LATA-Kemron, the ERRS contractor, conducted all construction activities. A survey subcontractor frequently was on site to determine pre-existing elevations at the mine property and to ensure that design specifications were being met during construction activities.

From July 6 to 27, 2011, the construction activities summarized below were completed.

- Construction of storm water retention Pond 1 was started and approximately 50 percent completed. Activities included the excavation of mine tailings to attain the specified depth and area required.
- Reconfiguration of the large berm along South Blackjack Road north of Pond 1 also was initiated and included excavating of tailings along the berm in order to move the berm further back from the roadway.
- The original stand pipe connected to the sub-pavement road culvert in the southwest corner of the Site was removed.
- The 36-inch culvert that runs under South Blackjack Road and empties into the horseshoe-shaped area remained in place to be used as part of the new drainage pathway.
- Excavated native material was field screened using an XRF instrument and stockpiled for future use as topsoil on the reconfigured berm.

On the evening of July 27 and through the morning of July 28, 2011, the Jo Daviess County, Illinois, area was struck by an unprecedented storm that rained over 13 inches of precipitation in a 12-hour period at the Site. This historic rainfall event exceeded the criteria for a 1,000-year,

12-hour storm event. The stormwater detention ponds were designed for the 100-year, 24-hour storm event. Access to the Site was not possible for most of the day after the storm because of flooded roads and bridges and flooding around the Site. A damage assessment was conducted on the evening of July 28, 2011. The water from this major storm caused significant damage to the berms of Ponds 1, 2, 3, and 4. Pond 5 and the upgradient diversion ditch remained structurally sound and were functioning properly after the storm.

Because of the large storm event and damage to the storm water detention ponds, some engineering design changes were implemented for managing stormwater at the Site. Ponds 3 and 4 were considered to be no longer functional based on their damage. Rather than expend effort to rebuild Ponds 3 and 4, the berms of Ponds 1 and 2 were raised to allow additional storage capacity; specifically, the Pond 1 berm was raised 3 feet and the Pond 2 berm was raised 5 feet. Also, to increase capacity, an additional 12-inch-diameter stand pipe and discharge pipe were installed in Pond 2 and the diameter of the discharge control stand pipe in Pond 1 was increased to 36 inches to allow a higher, controlled release rate from both ponds.

Rather than only installing a berm across the gated Site access road as a continuation of the South Blackjack Road berm as specified in the original plans, an additional storm water detention pond (Pond 6), stand pipe, and culvert were designed and added straddling the access road located across from the residential property and near Blackjack Road. The purpose of this additional pond is to prevent water from overtopping the planned berm, flooding South Blackjack Road, and depositing mine tailings onto the residential property across the street. **Figure 5** in **Attachment A** shows the final as-built drawing of the storm water detention ponds and indicates modeled high-water levels, drainage ditches, and culverts at the mine property. Hydrogeologic modeling was performed using the as-built topographic survey of the Site structures, and the revised design was confirmed to provide control of the 100-year, 24-hour design rainfall event in accordance with U.S. EPA specifications. **Attachment E** contains the results of the hydrogeologic modeling.

From July 28 to August 30, 2011, the construction activities summarized below were completed.

- The damaged berms for Ponds 1 and 2 were repaired. The berm for Pond 1 was raised 3 feet, and the berm for Pond 2 was raised 5 feet.
- A drainage ditch between Ponds 1 and 2 was constructed and lined with rip rap stone.
- The additional 12-inch stand pipe, outfall, and emergency overflow weir for Pond 2 were constructed.
- The construction of Pond 1 was completed, including completion of berm construction, installation of a 36-inch-diameter stand pipe, connection of the stand pipe to the existing 36-inch-diameter culvert that runs under South Blackjack Road, and the construction of an emergency overflow weir.

- The excavation of mine tailings from Pond 1 to the specified depth and area was completed to the extent possible given budgetary constraints. Although Pond 1 was not excavated completely to the design depth and area, the excavation was sufficient to provide the required storage capacity to control the 100-year design storm event as confirmed by hydrographic modeling using as-built topographic data.
- The construction of Pond 6 was completed, including installation of the berm to the required dimensions and installation of a discharge control stand pipe and outfall pipe to the ditch along South Blackjack Road.
- The slope of the existing berm along Blackjack Road was decreased to design specifications to allow vegetative growth and minimize erosion. The berm then was covered with 6 inches of topsoil.
- Fencing was installed along the Pond 1 berm near South Blackjack Road.

During the week of September 19, 2011, the berm and ditch along South Blackjack Road were hydroseeded using an Illinois Department of Transportation grass seed mix.

Air Monitoring and Sampling Activities

Throughout earth-moving activities, WESTON START conducted air monitoring and sampling to ensure that (1) airborne particles did not migrate off site and (2) both particulate and metals levels did not pose a risk to Site personnel or nearby residents.

For air monitoring during earth-moving activities, WESTON START used DataRAM units to record and log total particulate levels. In 2010, four DataRAM units were used, and in 2011, two DataRAM units were used. The DataRAM unit locations were based on the location of work activities and wind direction for a particular day. Data from these units was saved and reviewed daily to confirm that particulate levels did not pose a threat to nearby residents or Site workers. The ATSDR set a site-specific action level of 70 micrograms per cubic meter ($\mu g/m^3$) total particulates of a size of 10 micrometers (µm) or less (PM10). This action level is based on the National Ambient Air Quality Standards for lead and arsenic and on the highest concentrations detected in samples of residential area soil. This action level was not exceeded during the earth-moving activities conducted in 2010 and 2011 at the Site.

For air sampling, WESTON START used four AirCon or SKC air pumps connected to 5-µm polyvinyl chloride (PVC) filters encased in cartridges. The sampling points were positioned on the Site perimeter at locations selected based on different wind directions and Site activities. The filter media were attached to stands in the breathing zone approximately 3 to 5 feet above ground level. The sampling cartridges were submitted for laboratory analysis for total metals (lead and arsenic) and particulates. Results confirmed that metals and particulate levels did not pose a threat to residents or Site workers. **Attachment F** presents the air sampling results.

Residential Well Sampling Activities

Water from the residential well at 746 South Blackjack Road was sampled to assess the effectiveness of the RO drinking water filtration system installed by the PRPs. In addition, drinking water wells at other residential properties were sampled in 2010, including the properties at 842 and 861 South Blackjack Road. **Attachment G** contains a table summarizing the residential well water sampling results. Lead, arsenic, cadmium, and copper results all were below U.S. EPA MCLs. The results for pH were lower than the pH range specified under the non-enforceable National Secondary Drinking Water Regulation.

SUMMARY

Significant removal activities conducted in 2010 and 2011 included the following:

- Excavation of lead- and arsenic-contaminated soil at a residential property at 746 South Blackjack Road and completion of landscaping after excavation activities
- Construction activities at the mine property to stabilize mine tailings and control surface water runoff for a maximum of a 100-year, 24-hour rainfall event, including the following:
  - Construction of storm water detention ponds, including installation of discharge control stand pipes, outfall culverts, ditches between ponds, and emergency overflow weirs
  - Construction of an upgradient storm water diversion ditch on the north and east sides of the mine tailings area
  - Removal of contaminated soil and repair of the drainage ditch along South Blackjack Road
  - Reconfiguration and seeding of the berm along South Blackjack Road to prevent mine tailings from washing onto South Blackjack Road during storm events.

Additional removal activities tentatively are planned for 2012 to address the horseshoe-shaped area at 798 South Blackjack Road, clean up residual contamination in the Blackjack Road ditches, and address any Site repairs. If you have any questions or comments regarding this report or need additional copies, please contact WESTON START at (312) 424-3339.

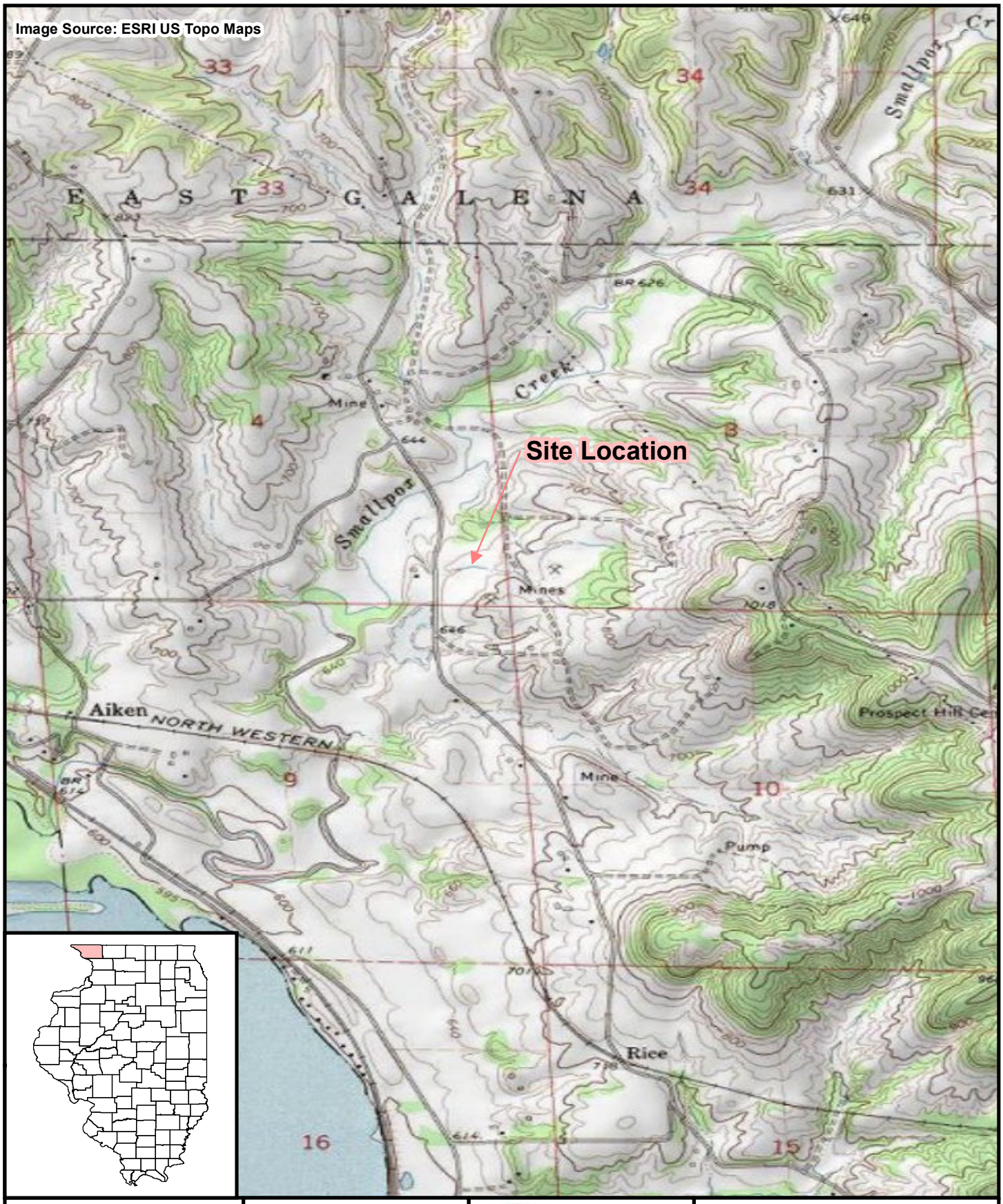
Very truly yours,
WESTON SOLUTIONS, INC.

Lisa Graczyk
WESTON START Project Manager

Attachments:
A – Figures
B – Photographic Documentation
C – Confirmation Soil Sampling Results
D – Soil Backfill Results
E – Hydrogeological Modeling Results
F - Air Sampling Results
G –Residential Well Water Sampling Results

cc: WESTON START DCN File

ATTACHMENT A
FIGURES



Legend

USGS Quad: Bellevue

0 2,000 Feet

N

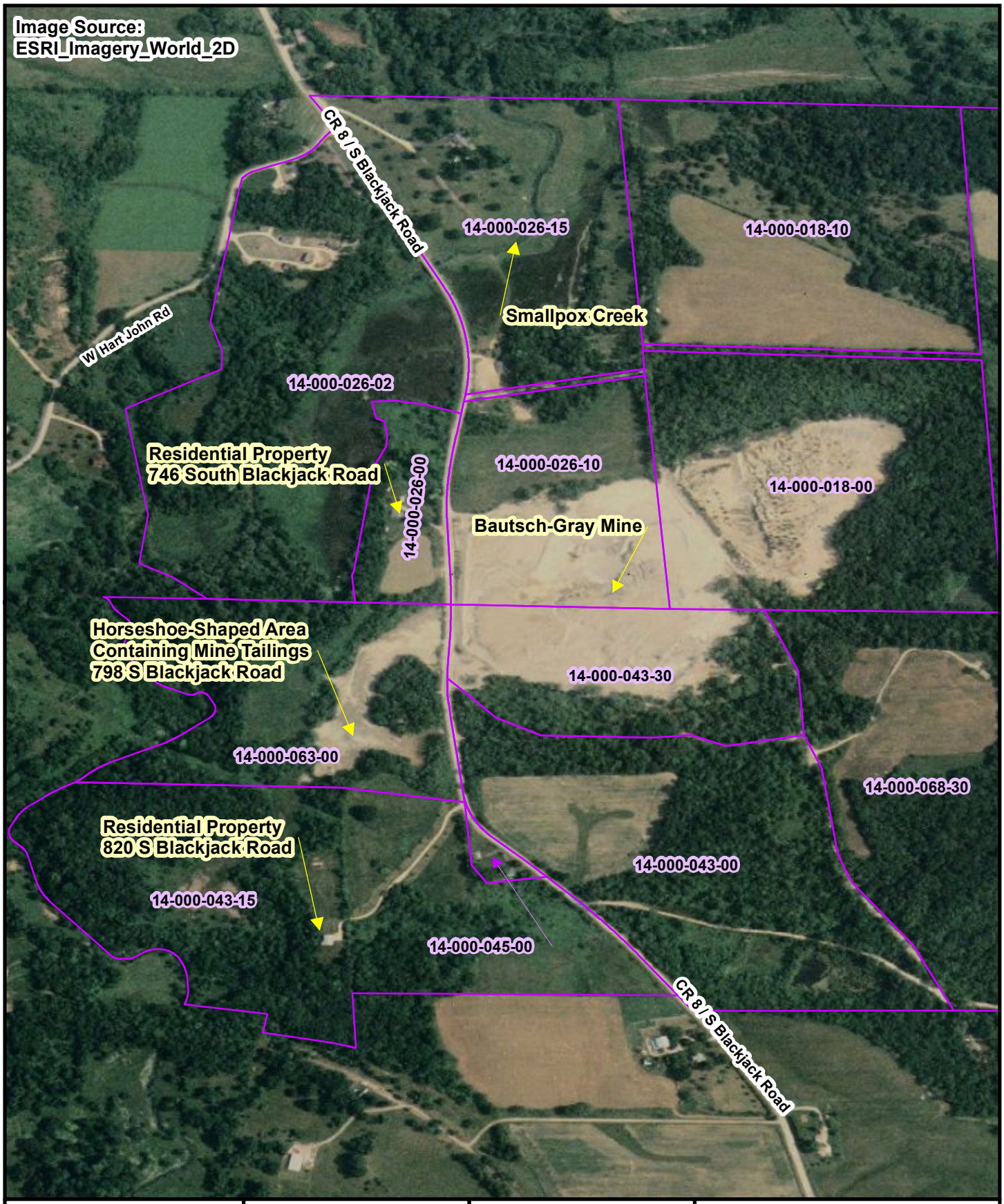
Prepared for:
U.S. EPA REGION V

Contract No.: EP-S5-06-04
TDD: S05-0001-0911-035
DCN: 874-2A-ASJZ

Prepared By:
WESTON SOLUTIONS, INC
20 N. Wacker Drive
Suite 1210
Chicago, Illinois 60606

Figure 1
Site Location Map
Bautsch-Gray Mine Site
Jo Daviess County, Illinois

FILE: D:\Bautsch_Grey\mxd\RV\F1_Site_Location_topo.mxd 10/24/2011 4:48:06 PM wojdakon



Legend

Parcel Boundaries

0 500 Feet

N

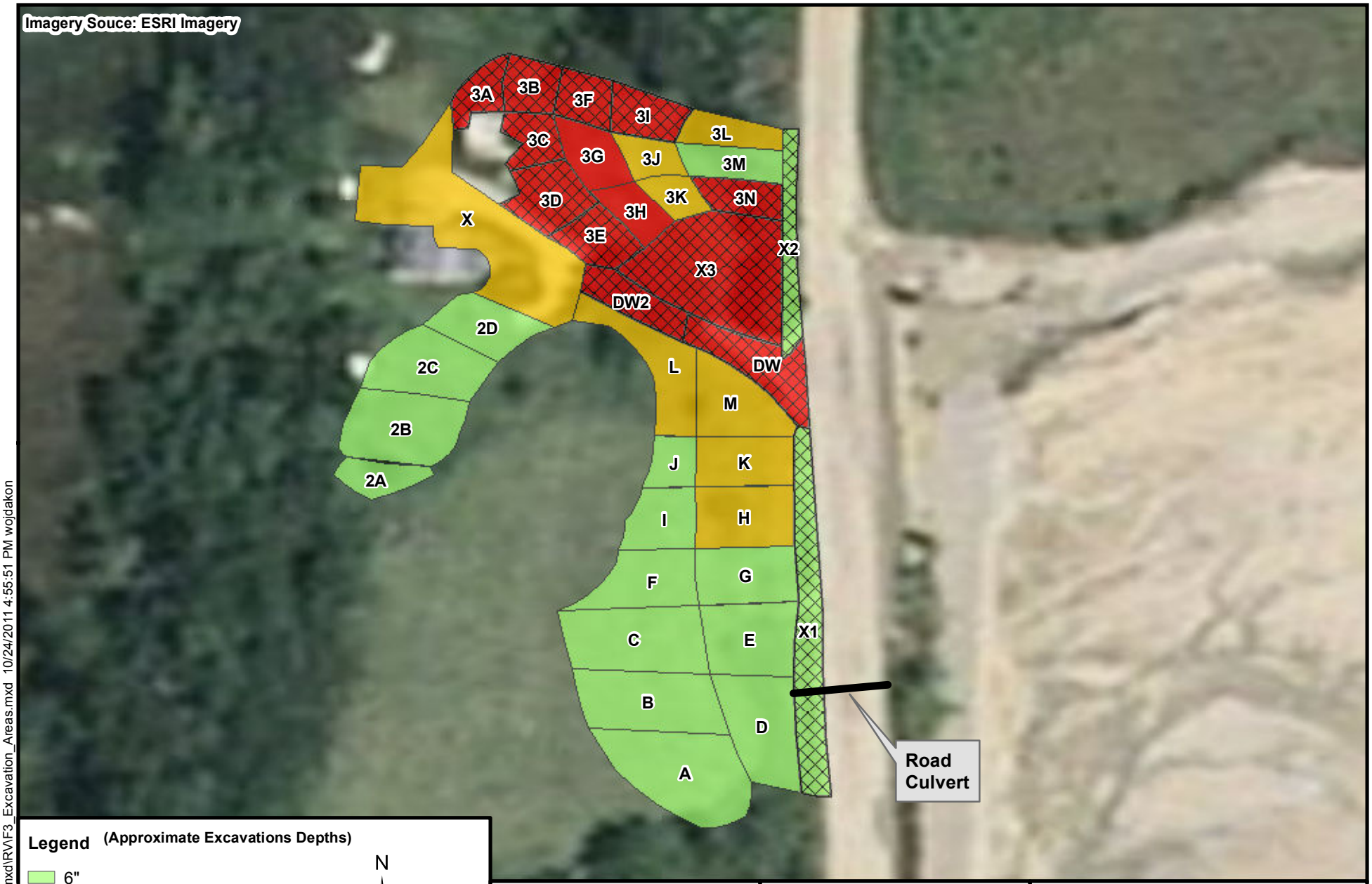
Prepared for:
U.S. EPA REGION V

Contract No.: EP-S5-06-04
TDD: S05-0001-0911-035
DCN: 874-2A-ASJZ

Prepared By:
WESTON SOLUTIONS, INC
20 N. Wacker Drive
Suite 1210
Chicago, Illinois 60606

Figure 2
Site Features Map
Bautsch-Gray Mine Site
Jo Daviess County, Illinois

FILE: D:\Bautsch_Grey\mxd\RV\F2_Site_Features_Parcels.mxd 10/24/2011 4:50:34 PM wojdakon

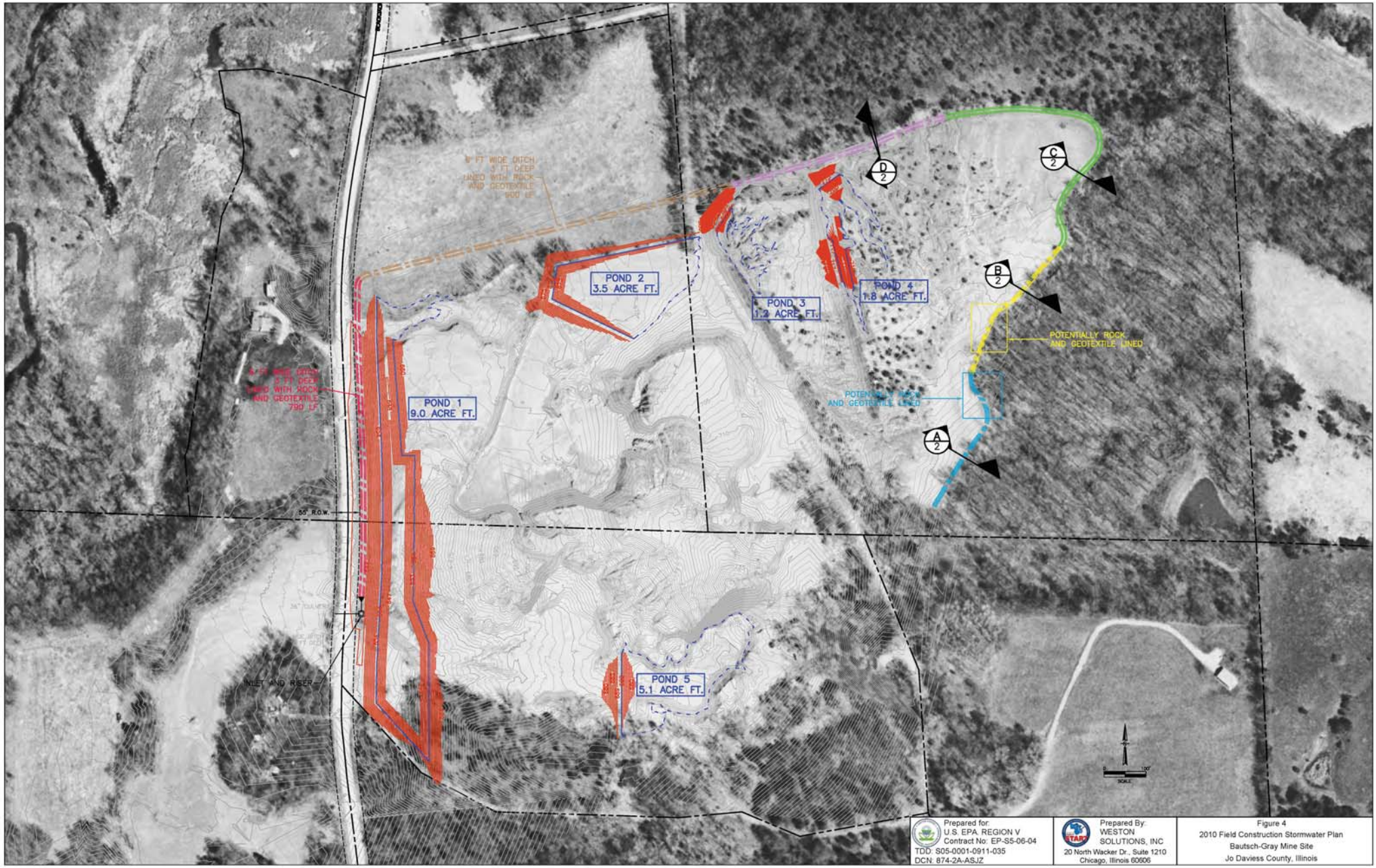


FILE: D:\Bautsch_Grey\mxd\RV\F3_Excavation_Areas.mxd 10/24/2011 4:55:51 PM wojdakon

Prepared For:
U.S. EPA REGION V
Contract No.: EP-S5-06-04
TDD: S05-0001-0911-035
DCN: 874-2A-ASJZ

Prepared By:
WESTON SOLUTIONS
20 N. Wacker Drive
Suite 1210
Chicago, Illinois 60606

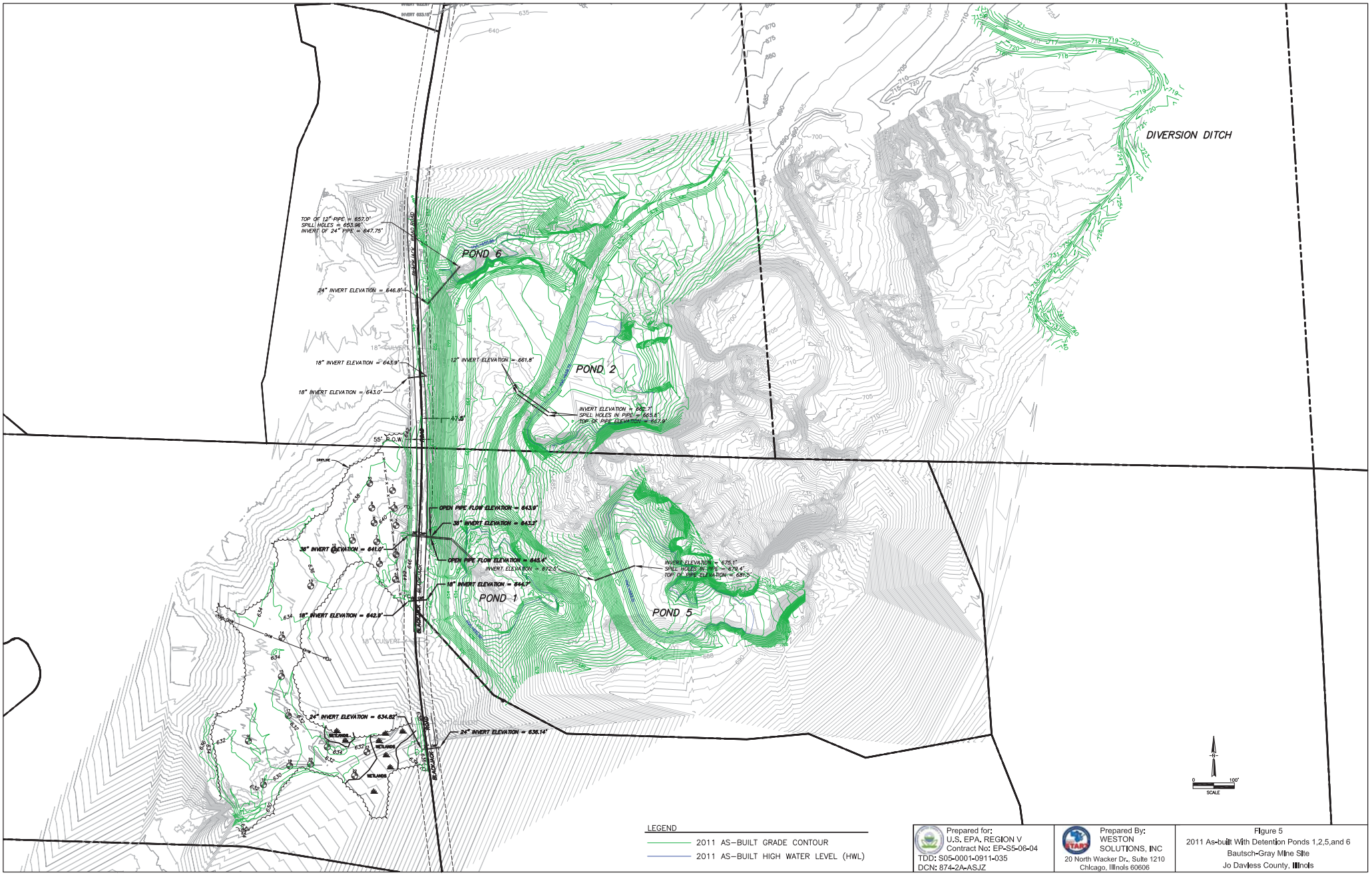
Figure 3
Excavation Areas at
Residential Property
Bautsch-Gray Mine Site Removal
Jo Daviess County, Illinois



Prepared for:
U.S. EPA REGION V
Contract No: EP-S5-06-04
TDD: S05-0001-0911-035
DCN: 874-2A-ASJZ

Prepared By:
WESTON SOLUTIONS, INC
20 North Wacker Dr., Suite 1210
Chicago, Illinois 60606

Figure 4
2010 Field Construction Stormwater Plan
Bautsch-Gray Mine Site
Jo Daviess County, Illinois



Prepared for:
U.S. EPA. REGION V
Contract No: EP-S5-06-04
TDD: S05-0001-0911-035
DCN: 874-2A-ASJZ

Prepared By:
WESTON SOLUTIONS, INC
20 North Wacker Dr., Suite 1210
Chicago, Illinois 60606

Figure 5
2011 As-built With Detention Ponds 1,2,5,and 6
Bautsch-Gray Mine Site
Jo Daviess County, Illinois

ATTACHMENT B
PHOTOGRAPHIC DOCUMENTATION

Site: Bautsch-Gray Mine Site
Photograph No.: 1 **Date:** 9/17/10
Direction: Northeast **Photographer:** Jeff Bryniarski
Subject: Loading of impacted soil and tailings into dump truck for off-site transport

Site: Bautsch-Gray Mine Site
Photograph No.: 2 **Date:** 9/25/10
Direction: North **Photographer:** Jeff Bryniarski
Subject: Excavation of impacted soil from area south of residence at 746 South Blackjack Road

Site: Bautsch-Gray Mine Site
Photograph No.: 3 **Date:** 9/28/10
Direction: East **Photographer:** Jeff Bryniarski
Subject: Excavation of west end of driveway at 746 South Blackjack Road

Site: Bautsch-Gray Mine Site
Photograph No.: 4 **Date:** 9/27/10
Direction: East **Photographer:** Jeff Bryniarski
Subject: Removal of vegetation from northeast corner of mine tailings pile

Site: Bautsch-Gray Mine Site
Photograph No.: 5 **Date:** 9/27/10
Direction: East **Photographer:** Jeff Bryniarski
Subject: Excavation of impacted soil and tailings from area north of driveway at 746 South Blackjack Road

Site: Bautsch-Gray Mine Site
Photograph No.: 6 **Date:** 9/28/10
Direction: Northeast **Photographer:** Jeff Bryniarski
Subject: Excavation of impacted soil and tailings from area near South Blackjack Road

Site: Bautsch-Gray Mine Site
Photograph No.: 7 **Date:** 9/28/10
Direction: Southeast **Photographer:** Jeff Bryniarski
Subject: Excavation of impacted soil and spreading and shaping of backfill

Site: Bautsch-Gray Mine Site
Photograph No.: 8 **Date:** 10/1/10
Direction: East **Photographer:** Jeff Bryniarski
Subject: Installation of barrier fencing over impacted area before backfilling

Site: Bautsch-Gray Mine Site
Photograph No.: 9 **Date:** 10/1/10
Direction: West **Photographer:** Jeff Bryniarski
Subject: Dumping of backfill material over excavated area north of driveway at 746 South Blackjack Road

Site: Bautsch-Gray Mine Site
Photograph No.: 10 **Date:** 10/4/10
Direction: East **Photographer:** Jeff Bryniarski
Subject: Spreading of new crushed stone for driveway surface after excavation

Site: Bautsch-Gray Mine Site
Photograph No.: 11 **Date:** 9/15/10
Direction: West **Photographer:** Jeff Bryniarski
Subject: Air monitoring and sampling station near residence managed by WESTON START during site work

Site: Bautsch-Gray Mine Site
Photograph No.: 12 **Date:** 9/15/10
Direction: Overhead **Photographer:** Len Zintak
Subject: WESTON START field screening site soil using Innov-X XRF instrument

Site: Bautsch-Gray Mine Site
Photograph No.: 13 **Date:** 10/7/10
Direction: Northeast **Photographer:** Jeff Bryniarski
Subject: ERRS contractor installing barrier fencing and excavating east end of driveway at 746 South Blackjack Road

Site: Bautsch-Gray Mine Site
Photograph No.: 14 **Date:** 10/13/10
Direction: East **Photographer:** Marcus Muccianti
Subject: Spreading of grass seed and hay over backfilled area

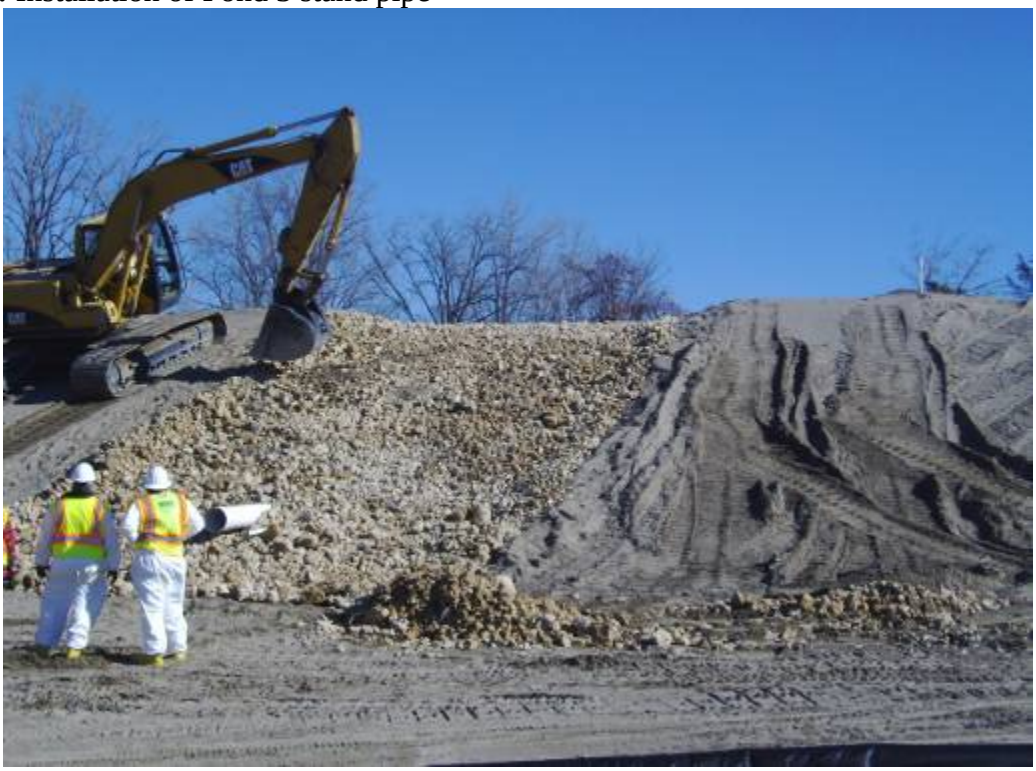
Site: Bautsch-Gray Mine Site
Photograph No.: 15 **Date:** 10/14/10
Direction: North **Photographer:** Marcus Muccianti
Subject: Remediated area south of residence at 746 South Blackjack Road after excavation, backfill, and seeding

Site: Bautsch-Gray Mine Site
Photograph No.: 16 **Date:** 10/14/10
Direction: South **Photographer:** Marcus Muccianti
Subject: Remediated area along South Blackjack Road after excavation, backfill, and seeding

Site: Bautsch-Gray Mine Site
Photograph No.: 17 **Date:** 10/14/10
Direction: East **Photographer:** Marcus Muccianti
Subject: Remediated area near residence at 746 South Blackjack Road after excavation, backfill, and sod installation

Site: Bautsch-Gray Mine Site
Photograph No.: 18 **Date:** 10/18/10
Direction: Southeast **Photographer:** Jeff Bryniarski
Subject: ERRS contractor spreading rip rap stone as part of diversion ditch construction

Site: Bautsch-Gray Mine Site
Photograph No.: 19 **Date:** 10/20/10
Direction: West **Photographer:** Jeff Bryniarski
Subject: Installation of Pond 3 stand pipe



Site: Bautsch-Gray Mine Site
Photograph No.: 20 **Date:** 10/25/10
Direction: East **Photographer:** Jeff Bryniarski
Subject: Installation of rip rap stone on Pond 3 overflow weir

Site: Bautsch-Gray Mine Site
Photograph No.: 21 **Date:** 10/20/10
Direction: East **Photographer:** Len Zintak
Subject: Compaction of tailings material on top of Pond 3 drainage pipe

Site: Bautsch-Gray Mine Site
Photograph No.: 22 **Date:** 11/8/10
Direction: South **Photographer:** Len Zintak
Subject: Pond 2 with drainage pipe and crushed stone

Site: Bautsch-Gray Mine Site
Photograph No.: 23 **Date:** 11/8/10
Direction: West **Photographer:** Len Zintak
Subject: Pond 4 with drainage pipe, crushed stone, and warning sign posted

Site: Bautsch-Gray Mine Site
Photograph No.: 24 **Date:** 7/13/11
Direction: Southwest **Photographer:** Jeff Bryniarski
Subject: Excavation of tailings inside Pond 1

Site: Bautsch-Gray Mine Site
Photograph No.: 25 **Date:** 7/15/11
Direction: Southwest **Photographer:** Jeff Bryniarski
Subject: ERRS contractor field testing compaction of Pond 1 road berm

Site: Bautsch-Gray Mine Site
Photograph No.: 26 **Date:** 7/16/11
Direction: West **Photographer:** Jeff Bryniarski
Subject: Removal of existing Pond 1stand pipe

Site: Bautsch-Gray Mine Site
Photograph No.: 27 **Date:** 7/18/11
Direction: Southwest **Photographer:** Jeff Bryniarski
Subject: Excavation and loading of tailings inside Pond 1

Site: Bautsch-Gray Mine Site
Photograph No.: 28 **Date:** 7/19/11
Direction: Northeast **Photographer:** Jeff Bryniarski
Subject: WESTON START air monitoring and sampling near Pond 1

Site: Bautsch-Gray Mine Site
Photograph No.: 29 **Date:** 7/27/11
Direction: Northeast **Photographer:** Jeff Bryniarski
Subject: Dumping of excavated tailings near Pond 5

Site: Bautsch-Gray Mine Site
Photograph No.: 30 **Date:** 7/27/11
Direction: Northwest **Photographer:** Jeff Bryniarski
Subject: Installation of rip rap stone on Pond 1 overflow weir

Site: Bautsch-Gray Mine Site
Photograph No.: 31 **Date:** 7/28/11
Direction: East **Photographer:** Jeff Bryniarski
Subject: Pond 1 overflow weir destruction after flash flood rain event

Site: Bautsch-Gray Mine Site
Photograph No.: 32 **Date:** 7/28/11
Direction: Southeast **Photographer:** Jeff Bryniarski
Subject: Diversion ditch full of water and functional after flash flood rain event

Site: Bautsch-Gray Mine Site
Photograph No.: 33 **Date:** 7/28/11
Direction: Southeast **Photographer:** Jeff Bryniarski
Subject: Pond 5 full of water and functional after flash flood rain event

Site: Bautsch-Gray Mine Site
Photograph No.: 34 **Date:** 8/1/11
Direction: West **Photographer:** Jeff Bryniarski
Subject: Lawn of 746 South Blackjack Road after flash flood rain event

Site: Bautsch-Gray Mine Site
Photograph No.: 35 **Date:** 8/3/11
Direction: East **Photographer:** Jeff Bryniarski
Subject: ERRS contractor repairing and improving Pond 2 drainage piping

Site: Bautsch-Gray Mine Site
Photograph No.: 36 **Date:** 8/6/11
Direction: North **Photographer:** Jeff Bryniarski
Subject: Installation of drainage piping extension inside Pond 1

Site: Bautsch-Gray Mine Site
Photograph No.: 37 **Date:** 8/10/11
Direction: Southeast **Photographer:** Jeff Bryniarski
Subject: Repair of liner on Pond 1 roadway berm

Site: Bautsch-Gray Mine Site
Photograph No.: 38 **Date:** 8/10/11
Direction: Southeast **Photographer:** Jeff Bryniarski
Subject: Excavation and shaping of Pond 1 roadway berm

Site: Bautsch-Gray Mine Site
Photograph No.: 39 **Date:** 8/16/11
Direction: Southeast **Photographer:** Jeff Bryniarski
Subject: Spreading and shaping of backfill on berm along South Blackjack Road

Site: Bautsch-Gray Mine Site
Photograph No.: 40 **Date:** 8/16/11
Direction: South **Photographer:** Jeff Bryniarski
Subject: Excavation of drainage ditch from Pond 2 to Pond 1

Site: Bautsch-Gray Mine Site
Photograph No.: 41 **Date:** 8/18/11
Direction: Southeast **Photographer:** Jeff Bryniarski
Subject: Excavation of 746 South Blackjack Road property after flash flood rain event

Site: Bautsch-Gray Mine Site
Photograph No.: 42 **Date:** 8/22/11
Direction: Northwest **Photographer:** Jeff Bryniarski
Subject: Excavation of 746 South Blackjack Road property after flash flood rain event

Site: Bautsch-Gray Mine Site
Photograph No.: 43 **Date:** 8/26/11
Direction: Northeast **Photographer:** Jeff Bryniarski
Subject: Roadway berm extension with additional drainage outflow pipe

Site: Bautsch-Gray Mine Site
Photograph No.: 44 **Date:** 8/29/11
Direction: Southwest **Photographer:** Jeff Bryniarski
Subject: Drainage ditch from Pond 2 outflow to Pond 1

Site: Bautsch-Gray Mine Site
Photograph No.: 45 **Date:** 8/29/11
Direction: South **Photographer:** Jeff Bryniarski
Subject: Pond 1 berm fencing along South Blackjack Road

ATTACHMENT C
CONFIRMATION SOIL SAMPLING RESULTS

October 5, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10J0038

Re: Bautsch - Gray Mine Site

Dear Vernon Giles:

Microbac Laboratories, Inc. - Chicagoland Division received 2 sample(s) on 10/4/2010 9:10:00AM for the analyses presented in the following report as Work Order 10J0038.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

Deborah Griffiths
Senior Project Manager

WORK ORDER SAMPLE SUMMARY

Date: *Tuesday, October 5, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Project: Bautsch - Gray Mine Site
Lab Order: 10J0038

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10J0038-01	BG-Soil YD01 - 100110		10/01/2010 14:00	10/4/2010 9:10:00AM
10J0038-02	BG-Soil YD02 - 100110		10/01/2010 14:10	10/4/2010 9:10:00AM

Analytical Results

Date: *Tuesday, October 5, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil YD01 - 100110
Sample Description:
Matrix: Solid

Work Order/ID: 10J0038-01
Sampled: 10/01/2010 14:00
Received: 10/04/2010 9:10

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 9045C**					Analyst: **CS**
pH							Prep Date/Time: **10/04/2010 14:00**
pH	A	***7.76***	2.00		pH Units	1	10/04/2010 14:15

Analytical Results

Date: *Tuesday, October 5, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil YD02 - 100110
Sample Description:
Matrix: Solid

Work Order/ID: 10J0038-02
Sampled: 10/01/2010 14:10
Received: 10/04/2010 9:10

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 9045C**					Analyst: **CS**
pH							Prep Date/Time: **10/04/2010 14:00**
pH	A	***7.70***	2.00		pH Units	1	10/04/2010 14:15

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)
Indiana DEM approved support laboratory for solid waste and wastewater analyses
Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)
Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)
Kentucky DEP for the chemical analysis of drinking water (lab #90147)
Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)
*New York SDH for the chemical analysis of air and emissions (lab #11909)
North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)
Tennessee DEC for the chemical analysis of drinking water (lab #04017)
Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

COOLER INSPECTION

Date: Tuesday, October 5, 2010

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date/Time Received: 10/04/2010 09:10

Work Order Number: 10J0038

Received by: Ken Smith

Checklist completed by: 10/4/2010 9:20:00AM | Ken Smith

Reviewed by: 10/5/2010 | DDG

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 18.00°C

After-Hour Arrival?	Yes	☐	No	☑		
Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present	☐
Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	Not Present	☑
Custody seals intact on sample containers?	Yes	☐	No	☐	Not Present	☑
COC present?	Yes	☑	No	☐		
COC included sufficient client identification?	Yes	☑	No	☐		
COC included sufficient sample collector information?	Yes	☑	No	☐		
COC included a sample description?	Yes	☑	No	☐		
COC agrees with sample labels?	Yes	☑	No	☐		
COC identified the appropriate matrix?	Yes	☑	No	☐		
COC included date of collection?	Yes	☑	No	☐		
COC included time of collection?	Yes	☑	No	☐		
COC identified the appropriate number of containers?	Yes	☑	No	☐		
Samples in proper container/bottle?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
If the samples are preserved, are the preservatives identified?	Yes	☑	No	☐		
COC included the requested analyses?	Yes	☑	No	☐		

If No, adjusted by? _____

COC signed when relinquished and received?	Yes	☑	No	☐		
Samples received on ice?	Yes	☐	No	☑		
Samples properly preserved?	Yes	☑	No	☐		
Voa vials for aqueous samples have zero headspace?	Yes	☐	No	☐	No VOA vials submitted	☑

Cooler Comments:

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10J0038-01	BG-Soil YD01 - 100110	
10J0038-02	BG-Soil YD02 - 100110	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Wet Chemistry - Quality Control**
Work Order: 10J0038
Project: Bautsch - Gray Mine Site

Batch: B006751

pH

Sample ID: Duplicate (B006751-DUP1) **Method:** SW-846 9045C **Prepped:** 10/04/2010 14:00
Source: 10J0041-01 **Analyzed:** 10/04/2010 14:15

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
pH	8.800	2.00	pH Units		8.920			1.35	20	

10J0038 Deborah Griffiths
LATA-Kemron Remediation LLC - Albuquerque, NM
Bautsch - Grav Mine Site
10/04/2010

Microbac

Samples Submitted to:
[ ] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664
[ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

Chain of Custody Record

Number

Instructions on back

Client Name LATA - KEMRON	Project BAUTSCH-GRAV MINE RV	Turnaround Time	Report Type
Address 2424 LOUISIANA BLVD NE SUITE 400	Location GALENA, IL	[ ] Routine (7 working days)	[ ] Results Only [X] Level II
City, State, Zip ALBUQUERQUE, NM 87110	PO #	[X] RUSH* (notify lab)	[ ] Level III [ ] Level III CLP-like
Contact VERNON GILES	Compliance Monitoring? [ ] Yes(1) [X] No	24 TAT (needed by)	[ ] Level IV [ ] Level IV CLP-like
Telephone # 404-353-0337	(1)Agency/Program		[ ] EDD

Sampled by (PRINT) JEFF BRYNIARSKI Sampler Signature [signature] Sampler Phone # 708-284-2490

Send Report via [ ] Mail [ ] Telephone [ ] Fax (fax #) [X] e-mail (address) JEFF.BRYNIARSKI@WESTONSOLUTIONS.COM

* **Matrix Types:** Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** **Preservative Types:** (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types ** ↓	PH	For Lab Use Only
										10J0038
BG-SOIL-YD01-100110	S	X			10/01/10	1400	1	NONE	X	01
BG-SOIL-YD02-100110	S	X			10/01/10	1410	1	NONE	X	02

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive **Sample Disposition** [ ] Dispose as appropriate [ ] Return [ ] Archive

Comments	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
24-HOUR TAT RUSH	[signature]	10/01/10 17:00		
	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
	Relinquished By (signature)	Date/Time	Received for Lab By (signature) [signature]	Date/Time 10/4/10 0910

Sample temperature upon receipt in degrees C =

rev. 11/04/04

Page ____ of ____

September 30, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10I0985

Re: Bautsch - Gray Mine Site

Dear Vernon Giles:

Microbac Laboratories, Inc. - Chicagoland Division received 11 sample(s) on 9/29/2010 9:30:00AM for the analyses presented in the following report as Work Order 10I0985.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

Melissa A. Hamer-Bailey, CHMM
Regulatory Specialist

WORK ORDER SAMPLE SUMMARY

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Project: Bautsch - Gray Mine Site
Lab Order: 10I0985

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10I0985-01	BG-Soil H - 092810		09/28/2010 15:45	9/29/2010 9:30:00AM
10I0985-02	BG-Soil 3F - 092810		09/28/2010 15:50	9/29/2010 9:30:00AM
10I0985-03	BG-Soil 3F - 092810D		09/28/2010 15:50	9/29/2010 9:30:00AM
10I0985-04	BG-Soil 3G - 092810		09/28/2010 15:55	9/29/2010 9:30:00AM
10I0985-05	BG-Soil 3H - 092810		09/28/2010 16:00	9/29/2010 9:30:00AM
10I0985-06	BG-Soil 3I - 092810		09/28/2010 16:05	9/29/2010 9:30:00AM
10I0985-07	BG-Soil 3J - 092810		09/28/2010 16:10	9/29/2010 9:30:00AM
10I0985-08	BG-Soil 3K - 092810		09/28/2010 16:15	9/29/2010 9:30:00AM
10I0985-09	BG-Soil 3L - 092810		09/28/2010 16:20	9/29/2010 9:30:00AM
10I0985-10	BG-Soil 3M - 092810		09/28/2010 16:25	9/29/2010 9:30:00AM
10I0985-11	BG-Soil 3N - 092810		09/28/2010 16:30	9/29/2010 9:30:00AM

CASE NARRATIVE

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Project: Bautsch - Gray Mine Site
Lab Order: 10I0985

The Matrix Spike and Matrix Spike Duplicate performed on the BG-Soil 3F - 092810D sample failed the accuracy criteria for Lead. This bias is due to the high indigenous analyte concentration (relative to the spike amount).

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil H - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-01
Sampled: 09/28/2010 15:45
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 6010B**					Analyst: **SA**
Total Metals by ICP		Prep Method: **SW846 3050B**					Prep Date/Time: **09/29/2010 10:26**
Arsenic	A	***24***	0.51		mg/Kg dry	1	09/29/2010 15:11
Lead	A	***480***	0.38		mg/Kg dry	1	09/29/2010 15:11
		Method: **SM2540B Rev 18**					Analyst: **arcel**
Percent Solids							Prep Date/Time: **09/29/2010 17:29**
Percent Solids	A	***86***	0.10		wt%	1	09/30/2010 5:30

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3F - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-02
Sampled: 09/28/2010 15:50
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/29/2010 10:26**	
Arsenic	A	***28***	0.54		mg/Kg dry	1	09/29/2010 15:17
Lead	A	***410***	0.40		mg/Kg dry	1	09/29/2010 15:17
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **arcel** Prep Date/Time: **09/29/2010 17:29**	
Percent Solids	A	***86***	0.10		wt%	1	09/30/2010 5:30

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3F - 092810D
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-03
Sampled: 09/28/2010 15:50
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/29/2010 10:26**	
Arsenic	A	***35***	0.57		mg/Kg dry	1	09/29/2010 15:22
Lead	A	***530***	0.43		mg/Kg dry	1	09/29/2010 15:22
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **arcel** Prep Date/Time: **09/29/2010 17:29**	
Percent Solids	A	***87***	0.10		wt%	1	09/30/2010 5:30

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3G - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-04
Sampled: 09/28/2010 15:55
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/29/2010 10:26**	
Arsenic	A	***19***	0.54		mg/Kg dry	1	09/29/2010 15:39
Lead	A	***460***	0.41		mg/Kg dry	1	09/29/2010 15:39
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **arcel** Prep Date/Time: **09/29/2010 17:29**	
Percent Solids	A	***92***	0.10		wt%	1	09/30/2010 5:30

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3H - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-05
Sampled: 09/28/2010 16:00
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/29/2010 10:26**	
Arsenic	A	***13***	0.55		mg/Kg dry	1	09/29/2010 15:44
Lead	A	***310***	0.41		mg/Kg dry	1	09/29/2010 15:44
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **arcel** Prep Date/Time: **09/29/2010 17:29**	
Percent Solids	A	***85***	0.10		wt%	1	09/30/2010 5:30

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3I - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-06
Sampled: 09/28/2010 16:05
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/29/2010 10:26**	
Arsenic	A	***16***	0.54		mg/Kg dry	1	09/29/2010 15:50
Lead	A	***440***	0.40		mg/Kg dry	1	09/29/2010 15:50
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **arcel** Prep Date/Time: **09/29/2010 17:29**	
Percent Solids	A	***90***	0.10		wt%	1	09/30/2010 5:30

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3J - 092810
Work Order/ID: 10I0985-07
Sample Description:
Sampled: 09/28/2010 16:10
Matrix: Solid
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 6010B**					Analyst: **SA**
Total Metals by ICP		Prep Method: **SW846 3050B**					Prep Date/Time: **09/29/2010 10:26**
Arsenic	A	***16***	0.58		mg/Kg dry	1	09/30/2010 10:14
Lead	A	***400***	0.44		mg/Kg dry	1	09/30/2010 10:14
		Method: **SM2540B Rev 18**					Analyst: **arcel**
Percent Solids							Prep Date/Time: **09/29/2010 17:29**
Percent Solids	A	***86***	0.10		wt%	1	09/30/2010 5:30

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3K - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-08
Sampled: 09/28/2010 16:15
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**					Analyst: **SA** Prep Date/Time: **09/29/2010 10:26**
Arsenic	A	***15***	0.52		mg/Kg dry	1	09/30/2010 10:19
Lead	A	***380***	0.39		mg/Kg dry	1	09/30/2010 10:19
Percent Solids		Method: **SM2540B Rev 18**					Analyst: **arcel** Prep Date/Time: **09/29/2010 17:29**
Percent Solids	A	***91***	0.10		wt%	1	09/30/2010 5:30

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3L - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-09
Sampled: 09/28/2010 16:20
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/29/2010 10:26**	
Arsenic	A	***12***	0.53		mg/Kg dry	1	09/30/2010 10:25
Lead	A	***240***	0.40		mg/Kg dry	1	09/30/2010 10:25
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **arcel** Prep Date/Time: **09/29/2010 17:29**	
Percent Solids	A	***94***	0.10		wt%	1	09/30/2010 5:30

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3M - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-10
Sampled: 09/28/2010 16:25
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/29/2010 10:26**	
Arsenic	A	***12***	0.53		mg/Kg dry	1	09/30/2010 10:30
Lead	A	***230***	0.40		mg/Kg dry	1	09/30/2010 10:30
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **arcel** Prep Date/Time: **09/29/2010 17:29**	
Percent Solids	A	***94***	0.10		wt%	1	09/30/2010 5:30

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3N - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-11
Sampled: 09/28/2010 16:30
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/29/2010 10:26**	
Arsenic	A	***17***	0.50		mg/Kg dry	1	09/30/2010 10:36
Lead	A	***530***	0.38		mg/Kg dry	1	09/30/2010 10:36
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **arcel** Prep Date/Time: **09/29/2010 17:29**	
Percent Solids	A	***93***	0.10		wt%	1	09/30/2010 5:30

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)
Indiana DEM approved support laboratory for solid waste and wastewater analyses
Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)
Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)
Kentucky DEP for the chemical analysis of drinking water (lab #90147)
Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)
*New York SDH for the chemical analysis of air and emissions (lab #11909)
North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)
Tennessee DEC for the chemical analysis of drinking water (lab #04017)
Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

COOLER INSPECTION

Date: Thursday, September 30, 2010

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date/Time Received: 09/29/2010 09:30

Work Order Number: 10I0985

Received by: Ken Smith

Checklist completed by: 9/29/2010 9:45:00AM | Ken Smith

Reviewed by: 9/30/2010 | MHB

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 15.00°C

After-Hour Arrival?	Yes	☐	No	☑		
Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present	☐
Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	Not Present	☑
Custody seals intact on sample containers?	Yes	☐	No	☐	Not Present	☑
COC present?	Yes	☑	No	☐		
COC included sufficient client identification?	Yes	☑	No	☐		
COC included sufficient sample collector information?	Yes	☑	No	☐		
COC included a sample description?	Yes	☑	No	☐		
COC agrees with sample labels?	Yes	☑	No	☐		
COC identified the appropriate matrix?	Yes	☑	No	☐		
COC included date of collection?	Yes	☑	No	☐		
COC included time of collection?	Yes	☑	No	☐		
COC identified the appropriate number of containers?	Yes	☑	No	☐		
Samples in proper container/bottle?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
If the samples are preserved, are the preservatives identified?	Yes	☑	No	☐		
COC included the requested analyses?	Yes	☑	No	☐		

If No, adjusted by? _____

COC signed when relinquished and received?	Yes	☑	No	☐		
Samples received on ice?	Yes	☐	No	☑		
Samples properly preserved?	Yes	☑	No	☐		
Voa vials for aqueous samples have zero headspace?	Yes	☐	No	☐	No VOA vials submitted	☑

Cooler Comments:

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10I0985-01	BG-Soil H - 092810	
10I0985-02	BG-Soil 3F - 092810	
10I0985-03	BG-Soil 3F - 092810D	
10I0985-04	BG-Soil 3G - 092810	
10I0985-05	BG-Soil 3H - 092810	
10I0985-06	BG-Soil 3I - 092810	
10I0985-07	BG-Soil 3J - 092810	
10I0985-08	BG-Soil 3K - 092810	
10I0985-09	BG-Soil 3L - 092810	
10I0985-10	BG-Soil 3M - 092810	
10I0985-11	BG-Soil 3N - 092810	

Microbac®

Samples Submitted to:
- [X] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664
- [ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

Chain of Custody Record

RUSH!

Number 98243

Instructions on back

1009850 Deborah Griffiths
LATA-Kemron Remediation LLC - Albuquerque, NM
Bautsch - Grav Mine Site

Client Name LATA - KEMRON	Project BAUTSCH - GRAY MINE RV	Turnaround Time	Report Type
Address 2429 LOUISIANA BLVD NE SUITE 400	Location GALENA, IL	[ ] Routine (7 working days)	[ ] Results Only [X] Level II
City, State, Zip ALBUQUERQUE, NM 87110	PO #	[X] RUSH* (notify lab)	[ ] Level III [ ] Level III CLP-like
Contact VERNON GILES	Compliance Monitoring? [ ] Yes(1) [X] No	24 - HOUR TAT (needed by)	[ ] Level IV [ ] Level IV CLP-like
Telephone # 404 - 393 - 0337	(1)Agency/Program		[ ] EDD

Sampled by (PRINT) JEFF BRYNIARSKI Sampler Signature Sampler Phone # 708 - 284 - 2490

Send Report via [ ] Mail [ ] Telephone [ ] Fax (fax #) [X] e-mail (address) JEFF.BRYNIARSKI@WESTONSOLUTIONS.COM

* **Matrix Types:** Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** **Preservative Types:** (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

09/29/2010

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types **	LEAD	ARSENIC							For Lab Use Only 10I0985
BG-SOIL H-092810	S		X		09/28/10	1545	1	NONE	X	X							01
BG-SOIL 3F-092810						1550											02
BG-SOIL 3F-092810 D						1550											03
BG-SOIL 3G-092810						1555											04
BG-SOIL 3H-092810						1600											05
BG-SOIL 3I-092810						1605											06
BG-SOIL 3J-092810						1610											07
BG-SOIL 3K-092810						1615											08
BG-SOIL 3L-092810						1620											09
BG-SOIL 3M-092810						1625											10
BG-SOIL 3N-092810	↓		↓		↓	1630	↓	↓	↓	↓							11

Possible Hazard Identification [ ] Hazardous [X] Non-Hazardous [ ] Radioactive **Sample Disposition** [ ] Dispose as appropriate [ ] Return [X] Archive

Comments

RUN AN MS-MSD ON SAMPLE BG-SOIL 3F-092810 (D)

24 - HOUR TAT

Sample temperature upon receipt in degrees C = 16

Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
	09/28/10 1800		
Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
Relinquished By (signature)	Date/Time	Received for Lab By (signature)	Date/Time
			9/29/10 0930

Page 18 of 18

rev. 11/04/04

Page ____ of ____

Microbac®

September 30, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10I0930

Re: Bautsch - Gray Mine Site

Dear Vernon Giles:

Microbac Laboratories, Inc. - Chicagoland Division received 7 sample(s) on 9/28/2010 9:25:00AM for the analyses presented in the following report as Work Order 10I0930.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

Melissa A. Hamer-Bailey, CHMM
Regulatory Specialist

WORK ORDER SAMPLE SUMMARY

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Project: Bautsch - Gray Mine Site
Lab Order: 10I0930

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10I0930-01	BG-Soil 3A - 092710		09/27/2010 14:00	9/28/2010 9:25:00AM
10I0930-02	BG-Soil 3B - 092710		09/27/2010 14:05	9/28/2010 9:25:00AM
10I0930-03	BG-Soil 3C - 092710		09/27/2010 14:10	9/28/2010 9:25:00AM
10I0930-04	BG-Soil 3D - 092710		09/27/2010 14:15	9/28/2010 9:25:00AM
10I0930-05	BG-Soil 3E - 092710		09/27/2010 14:20	9/28/2010 9:25:00AM
10I0930-06	BG-Soil K - 092710		09/27/2010 14:25	9/28/2010 9:25:00AM
10I0930-07	BG-Soil L - 092710		09/27/2010 14:30	9/28/2010 9:25:00AM

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3A - 092710
Sample Description:
Matrix: Solid

Work Order/ID: 10I0930-01
Sampled: 09/27/2010 14:00
Received: 09/28/2010 9:25

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 6010B**					Analyst: **SA**
Total Metals by ICP		Prep Method: **SW846 3050B**					Prep Date/Time: **09/28/2010 11:10**
Arsenic	A	***22***	0.58		mg/Kg dry	1	09/28/2010 15:13
Lead	A	***470***	0.44		mg/Kg dry	1	09/28/2010 15:13
		Method: **SM2540B Rev 18**					Analyst: **arcel**
Percent Solids							Prep Date/Time: **09/28/2010 17:06**
Percent Solids	A	***86***	0.10		wt%	1	09/29/2010 8:30

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3B - 092710
Sample Description:
Matrix: Solid

Work Order/ID: 10I0930-02
Sampled: 09/27/2010 14:05
Received: 09/28/2010 9:25

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/28/2010 11:10**	
Arsenic	A	***14***	0.58		mg/Kg dry	1	09/28/2010 15:30
Lead	A	***390***	0.43		mg/Kg dry	1	09/28/2010 15:30
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **arcel** Prep Date/Time: **09/28/2010 17:06**	
Percent Solids	A	***87***	0.10		wt%	1	09/29/2010 8:30

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3C - 092710
Sample Description:
Matrix: Solid

Work Order/ID: 10I0930-03
Sampled: 09/27/2010 14:10
Received: 09/28/2010 9:25

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**					Analyst: **SA** Prep Date/Time: **09/28/2010 11:10**
Arsenic	A	***21***	0.60		mg/Kg dry	1	09/28/2010 15:35
Lead	A	***300***	0.45		mg/Kg dry	1	09/28/2010 15:35
Percent Solids		Method: **SM2540B Rev 18**					Analyst: **arcel** Prep Date/Time: **09/28/2010 17:06**
Percent Solids	A	***82***	0.10		wt%	1	09/29/2010 8:30

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3D - 092710
Sample Description:
Matrix: Solid

Work Order/ID: 10I0930-04
Sampled: 09/27/2010 14:15
Received: 09/28/2010 9:25

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 6010B**					Analyst: **SA**
Total Metals by ICP		Prep Method: **SW846 3050B**					Prep Date/Time: **09/28/2010 11:10**
Arsenic	A	***22***	0.56		mg/Kg dry	1	09/28/2010 16:02
Lead	A	***520***	0.42		mg/Kg dry	1	09/28/2010 16:02
		Method: **SM2540B Rev 18**					Analyst: **arcel**
Percent Solids							Prep Date/Time: **09/28/2010 17:06**
Percent Solids	A	***86***	0.10		wt%	1	09/29/2010 8:30

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3E - 092710
Sample Description:
Matrix: Solid

Work Order/ID: 10I0930-05
Sampled: 09/27/2010 14:20
Received: 09/28/2010 9:25

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/28/2010 11:10**	
Arsenic	A	***16***	0.58		mg/Kg dry	1	09/28/2010 16:08
Lead	A	***480***	0.44		mg/Kg dry	1	09/28/2010 16:08
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **arcel** Prep Date/Time: **09/28/2010 17:06**	
Percent Solids	A	***84***	0.10		wt%	1	09/29/2010 8:30

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil K - 092710
Sample Description:
Matrix: Solid

Work Order/ID: 10I0930-06
Sampled: 09/27/2010 14:25
Received: 09/28/2010 9:25

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/28/2010 11:10**	
Arsenic	A	***69***	0.58		mg/Kg dry	1	09/28/2010 16:13
Lead	A	***950***	0.43		mg/Kg dry	1	09/28/2010 16:13
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **arcel** Prep Date/Time: **09/28/2010 17:06**	
Percent Solids	A	***87***	0.10		wt%	1	09/29/2010 8:30

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil L - 092710
Sample Description:
Matrix: Solid

Work Order/ID: 10I0930-07
Sampled: 09/27/2010 14:30
Received: 09/28/2010 9:25

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/28/2010 11:10**	
Arsenic	A	***36***	0.59		mg/Kg dry	1	09/28/2010 16:19
Lead	A	***510***	0.44		mg/Kg dry	1	09/28/2010 16:19
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **arcel** Prep Date/Time: **09/28/2010 17:06**	
Percent Solids	A	***85***	0.10		wt%	1	09/29/2010 8:30

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)
Indiana DEM approved support laboratory for solid waste and wastewater analyses
Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)
Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)
Kentucky DEP for the chemical analysis of drinking water (lab #90147)
Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)
*New York SDH for the chemical analysis of air and emissions (lab #11909)
North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)
Tennessee DEC for the chemical analysis of drinking water (lab #04017)
Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

COOLER INSPECTION

Date: Thursday, September 30, 2010

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date/Time Received: 09/28/2010 09:25

Work Order Number: 10I0930

Received by: Ken Smith

Checklist completed by: 9/28/2010 9:36:00AM | Ken Smith

Reviewed by: 9/28/2010 | DDG

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 21.00°C

After-Hour Arrival?	Yes	☐	No	☑		
Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present	☐
Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	Not Present	☑
Custody seals intact on sample containers?	Yes	☐	No	☐	Not Present	☑
COC present?	Yes	☑	No	☐		
COC included sufficient client identification?	Yes	☑	No	☐		
COC included sufficient sample collector information?	Yes	☑	No	☐		
COC included a sample description?	Yes	☑	No	☐		
COC agrees with sample labels?	Yes	☑	No	☐		
COC identified the appropriate matrix?	Yes	☑	No	☐		
COC included date of collection?	Yes	☑	No	☐		
COC included time of collection?	Yes	☑	No	☐		
COC identified the appropriate number of containers?	Yes	☑	No	☐		
Samples in proper container/bottle?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
If the samples are preserved, are the preservatives identified?	Yes	☑	No	☐		
COC included the requested analyses?	Yes	☑	No	☐		

If No, adjusted by? _____

COC signed when relinquished and received?	Yes	☑	No	☐		
Samples received on ice?	Yes	☐	No	☑		
Samples properly preserved?	Yes	☑	No	☐		
Voa vials for aqueous samples have zero headspace?	Yes	☐	No	☐	No VOA vials submitted	☑

Cooler Comments:

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10I0930-01	BG-Soil 3A - 092710	
10I0930-02	BG-Soil 3B - 092710	
10I0930-03	BG-Soil 3C - 092710	
10I0930-04	BG-Soil 3D - 092710	
10I0930-05	BG-Soil 3E - 092710	
10I0930-06	BG-Soil K - 092710	
10I0930-07	BG-Soil L - 092710	

Microbac®

Samples Submitted to:
[X] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664
[ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

Chain of Custody Record

RUSH!

Number 98244

Instructions on back

Client Name LATA - KEMRON	Project BAUTSCH-GRAY MINE RV	Turnaround Time	Report Type
Address 2424 LOUISIANA BLVD. NE SUITE 400	Location GALENA, IL	[ ] Routine (7 working days)	[ ] Results Only [X] Level II
City, State, Zip ALBUQUERQUE, NM 87110	PO #	[X] RUSH* (notify lab)	[ ] Level III [ ] Level III CLP-like
Contact VERNON GILES	Compliance Monitoring? [ ] Yes(1) [X] No	24-HOUR TAT (needed by)	[ ] Level IV [ ] Level IV CLP-like
Telephone # 404-353-0337	(1)Agency/Program		[ ] EDD

Sampled by (PRINT) JEFF BRYNIARSKI Sampler Signature Sampler Phone # 708-284-2490

Send Report via [ ] Mail [ ] Telephone [ ] Fax (fax #) [X] e-mail (address) JEFF.BRYNIARSKI@WESTONSOLUTIONS.COM

* **Matrix Types:** Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** **Preservative Types:** (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types **	LEAD	ARSENIC							For Lab Use Only 10L0930
BG-SOIL 3A-092710	S		X		09/27/10	1400	1	NONE	X	X							01
BG-SOIL 3B-092710						1405			X	X							02
BG-SOIL 3C-092710						1410			X	X							03
BG-SOIL 3D-092710						1415			X	X							04
BG-SOIL 3E-092710						1420			X	X							05
BG-SOIL K-092710						1425			X	X							06
BG-SOIL L-092710	↓		↓		↓	1430	↓	↓	X	X							07

Possible Hazard Identification [ ] Hazardous [X] Non-Hazardous [ ] Radioactive **Sample Disposition** [ ] Dispose as appropriate [ ] Return [X] Archive

Comments	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
24-HOUR TAT		09/27/10 18:00		
	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
	Relinquished By (signature)	Date/Time	Received for Lab By (signature)	Date/Time
Sample temperature upon receipt in degrees C =				9/28/10 0925

rev. 11/04/04

Page ___ of ___

Revised
9/30/2010

September 30, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10I0879

Re: Bautsch - Gray Mine Site

Dear Tom Urmson:

Microbac Laboratories, Inc. - Chicagoland Division received 10 sample(s) on 9/27/2010 9:20:00AM for the analyses presented in the following report as Work Order 10I0879.

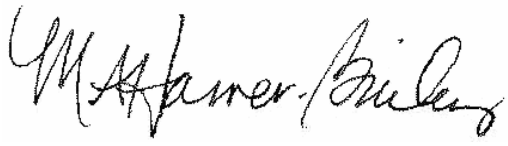
The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted. Note, this report has been revised to report by dry weight.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.



Melissa A. Hamer-Bailey, CHMM
Regulatory Specialist

Revised
9/30/2010

WORK ORDER SAMPLE SUMMARY

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Project: Bautsch - Gray Mine Site
Lab Order: 10I0879

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10I0879-01	BG-Soil 2A - 092310		09/23/2010 16:05	9/27/2010 9:20:00AM
10I0879-02	BG-Soil 2B - 092310		09/23/2010 16:10	9/27/2010 9:20:00AM
10I0879-03	BG-Soil 2C - 092310		09/23/2010 16:15	9/27/2010 9:20:00AM
10I0879-04	BG-Soil 2D - 092310		09/23/2010 16:20	9/27/2010 9:20:00AM
10I0879-05	BG-Soil E - 092310		09/23/2010 16:25	9/27/2010 9:20:00AM
10I0879-06	BG-Soil F - 092310		09/23/2010 16:30	9/27/2010 9:20:00AM
10I0879-07	BG-Soil G - 092310		09/23/2010 16:35	9/27/2010 9:20:00AM
10I0879-08	BG-Soil I - 092310		09/23/2010 16:40	9/27/2010 9:20:00AM
10I0879-09	BG-Soil J - 092310		09/23/2010 16:45	9/27/2010 9:20:00AM
10I0879-10	BG-Soil J - 092310D		09/23/2010 16:45	9/27/2010 9:20:00AM

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

Revised
9/30/2010

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 2A - 092310
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-01
Sampled: 09/23/2010 16:05
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/27/2010 11:02**	
Arsenic	A	***11***	0.63		mg/Kg dry	1	09/27/2010 16:02
Lead	A	***78***	0.47		mg/Kg dry	1	09/27/2010 16:02
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **CSTAS** Prep Date/Time: **09/27/2010 12:37**	
Percent Solids	A	***79***	0.10		wt%	1	09/28/2010 7:30

Revised
9/30/2010

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 2B - 092310
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-02
Sampled: 09/23/2010 16:10
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/27/2010 11:02**	
Arsenic	A	***14***	0.63		mg/Kg dry	1	09/27/2010 16:08
Lead	A	***150***	0.47		mg/Kg dry	1	09/27/2010 16:08
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **CSTAS** Prep Date/Time: **09/27/2010 12:37**	
Percent Solids	A	***79***	0.10		wt%	1	09/28/2010 7:30

Revised
9/30/2010

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 2C - 092310
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-03
Sampled: 09/23/2010 16:15
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/27/2010 11:02**	
Arsenic	A	***11***	0.56		mg/Kg dry	1	09/27/2010 16:13
Lead	A	***110***	0.42		mg/Kg dry	1	09/27/2010 16:13
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **CSTAS** Prep Date/Time: **09/27/2010 12:37**	
Percent Solids	A	***89***	0.10		wt%	1	09/28/2010 7:30

Revised
9/30/2010

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 2D - 092310
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-04
Sampled: 09/23/2010 16:20
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/27/2010 11:02**	
Arsenic	A	***12***	0.53		mg/Kg dry	1	09/27/2010 16:19
Lead	A	***800***	0.40		mg/Kg dry	1	09/27/2010 16:19
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **CSTAS** Prep Date/Time: **09/27/2010 12:37**	
Percent Solids	A	***95***	0.10		wt%	1	09/28/2010 7:30

Revised
9/30/2010

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil E - 092310
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-05
Sampled: 09/23/2010 16:25
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/27/2010 11:02**	
Arsenic	A	***18***	0.61		mg/Kg dry	1	09/27/2010 16:24
Lead	A	***320***	0.46		mg/Kg dry	1	09/27/2010 16:24
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **CSTAS** Prep Date/Time: **09/27/2010 12:37**	
Percent Solids	A	***81***	0.10		wt%	1	09/28/2010 7:30

Revised
9/30/2010

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil F - 092310
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-06
Sampled: 09/23/2010 16:30
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/27/2010 11:02**	
Arsenic	A	***14***	0.55		mg/Kg dry	1	09/27/2010 16:30
Lead	A	***190***	0.41		mg/Kg dry	1	09/27/2010 16:30
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **CSTAS** Prep Date/Time: **09/27/2010 12:37**	
Percent Solids	A	***90***	0.10		wt%	1	09/28/2010 7:30

Revised
9/30/2010

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil G - 092310
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-07
Sampled: 09/23/2010 16:35
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**					Analyst: **SA** Prep Date/Time: **09/27/2010 11:02**
Arsenic	A	***22***	0.56		mg/Kg dry	1	09/28/2010 10:50
Lead	A	***320***	0.42		mg/Kg dry	1	09/27/2010 16:57
Lead	A	***300***	0.42		mg/Kg dry	1	09/28/2010 10:50
Percent Solids		Method: **SM2540B Rev 18**					Analyst: **CSTAS** Prep Date/Time: **09/27/2010 12:37**
Percent Solids	A	***85***	0.10		wt%	1	09/28/2010 7:30

Microbac®

Revised
9/30/2010

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil I - 092310
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-08
Sampled: 09/23/2010 16:40
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/27/2010 11:02**	
Arsenic	A	***20***	0.55		mg/Kg dry	1	09/28/2010 10:55
Lead	A	***230***	0.42		mg/Kg dry	1	09/28/2010 10:55
Lead	A	***240***	0.42		mg/Kg dry	1	09/27/2010 17:02
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **CSTAS** Prep Date/Time: **09/27/2010 12:37**	
Percent Solids	A	***90***	0.10		wt%	1	09/28/2010 7:30

Revised
9/30/2010

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil J - 092310
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-09
Sampled: 09/23/2010 16:45
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/27/2010 11:02**	
Arsenic	A	***16***	0.53		mg/Kg dry	1	09/28/2010 11:01
Lead	A	***190***	0.40		mg/Kg dry	1	09/28/2010 11:01
Lead	A	***190***	0.40		mg/Kg dry	1	09/27/2010 17:08
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **CSTAS** Prep Date/Time: **09/27/2010 12:37**	
Percent Solids	A	***91***	0.10		wt%	1	09/28/2010 7:30

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

Microbac®

Revised
9/30/2010

Analytical Results

Date: *Thursday, September 30, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil J - 092310D
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-10
Sampled: 09/23/2010 16:45
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/27/2010 11:02**	
Arsenic	A	***16***	0.55		mg/Kg dry	1	09/28/2010 11:06
Lead	A	***160***	0.41		mg/Kg dry	1	09/28/2010 11:06
Lead	A	***170***	0.41		mg/Kg dry	1	09/27/2010 17:13
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **CSTAS** Prep Date/Time: **09/27/2010 12:37**	
Percent Solids	A	***91***	0.10		wt%	1	09/28/2010 7:30

Revised
9/30/2010

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)
Indiana DEM approved support laboratory for solid waste and wastewater analyses
Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)
Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)
Kentucky DEP for the chemical analysis of drinking water (lab #90147)
Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)
*New York SDH for the chemical analysis of air and emissions (lab #11909)
North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)
Tennessee DEC for the chemical analysis of drinking water (lab #04017)
Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

Revised
9/30/2010

COOLER INSPECTION

Date: Thursday, September 30, 2010

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date/Time Received: 09/27/2010 09:20

Work Order Number: 10I0879

Received by: Ken Smith

Checklist completed by: 9/27/2010 9:30:00AM | Ken Smith

Reviewed by: 9/27/2010 | DDG

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 19.00°C

After-Hour Arrival?	Yes	☐	No	☑		
Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present	☐
Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	Not Present	☑
Custody seals intact on sample containers?	Yes	☐	No	☐	Not Present	☑
COC present?	Yes	☑	No	☐		
COC included sufficient client identification?	Yes	☑	No	☐		
COC included sufficient sample collector information?	Yes	☑	No	☐		
COC included a sample description?	Yes	☑	No	☐		
COC agrees with sample labels?	Yes	☑	No	☐		
COC identified the appropriate matrix?	Yes	☑	No	☐		
COC included date of collection?	Yes	☑	No	☐		
COC included time of collection?	Yes	☑	No	☐		
COC identified the appropriate number of containers?	Yes	☑	No	☐		
Samples in proper container/bottle?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
If the samples are preserved, are the preservatives identified?	Yes	☑	No	☐		
COC included the requested analyses?	Yes	☑	No	☐		

If No, adjusted by? _____

COC signed when relinquished and received?	Yes	☑	No	☐		
Samples received on ice?	Yes	☐	No	☑		
Samples properly preserved?	Yes	☑	No	☐		
Voa vials for aqueous samples have zero headspace?	Yes	☐	No	☐	No VOA vials submitted	☑

Cooler Comments:

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10I0879-01	BG-Soil 2A - 092310	
10I0879-02	BG-Soil 2B - 092310	
10I0879-03	BG-Soil 2C - 092310	
10I0879-04	BG-Soil 2D - 092310	
10I0879-05	BG-Soil E - 092310	
10I0879-06	BG-Soil F - 092310	
10I0879-07	BG-Soil G - 092310	
10I0879-08	BG-Soil I - 092310	
10I0879-09	BG-Soil J - 092310	
10I0879-10	BG-Soil J - 092310D	

Microbac®

Samples Submitted to:
[X] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664
[ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

Chain of Custody Record

Number 98245

RUSH!

Instructions on back

1010879 Deborah Griffiths 09/27/2010 LATA-Kemron Remediation LLC - Albuquerque, NM Bautsch - Gray Mine Site

Client Name LATA - KEMRON	Project BAUTSCH - GRAY MINE RV	Turnaround Time	Report Type
Address 756 PARK MEADOW	Location GALENA, IL	[ ] Routine (7 working days)	[ ] Results Only [X] Level II
City, State, Zip WESTERVILLE, OH 43081	PO #	[X] RUSH* (notify lab)	[ ] Level III [ ] Level III CLP-like
Contact VERNON GILES	Compliance Monitoring? [ ] Yes(1) [X] No	24-HOUR TAT (needed by)	[ ] Level IV [ ] Level IV CLP-like
Telephone # 404-353-0337	(1)Agency/Program		[ ] EDD

Sampled by (PRINT) JEFF BRYNIARSKI Sampler Signature Sampler Phone # 708-284-2490

Send Report via [ ] Mail [ ] Telephone [ ] Fax (fax #) [X] e-mail (address) JEFF.BRYNIARSKI@WESTONSOLUTIONS.COM; VGILES@KEMRON.COM

* **Matrix Types:** Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** **Preservative Types:** (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types ** ↓	LEAD	ARSENIC							For Lab Use Only
																	10I0879
BG-SOIL 2A-092310	S		X		09/23/10	1605	1	NONE	X	X							01
BG-SOIL 2B-092310			X			1610			X	X							02
BG-SOIL 2C-092310			X			1615			X	X							03
BG-SOIL 2D-092310			X			1620			X	X							04
BG-SOIL E-092310			X			1625			X	X							05
BG-SOIL F-092310			X			1630			X	X							06
BG-SOIL G-092310			X			1635			X	X							07
BG-SOIL I-092310			X			1640			X	X							08
BG-SOIL J-092310			X			1645			X	X							09
BG-SOIL J-092310D	↓		X		↓	1645	↓	↓	X	X							10

Possible Hazard Identification [ ] Hazardous [X] Non-Hazardous [ ] Radioactive Sample Disposition [ ] Dispose as appropriate [ ] Return [X] Archive

Comments: EMAIL RESULTS TO BOTH CONTACTS LISTED ABOVE

Sample temperature upon receipt in degrees C =

Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
	09/24/10 17:00		
Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
Relinquished By (signature)	Date/Time	Received for Lab By (signature)	Date/Time
			9/27/10 0920

Page ___ of ___

rev. 11/04/04

Revised
9/27/2010

September 27, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10I0759

Re: Bautsch - Gray Mine Site

Dear Vernon Giles:

Microbac Laboratories, Inc. - Chicagoland Division received 4 sample(s) on 9/22/2010 10:00:00AM for the analyses presented in the following report as Work Order 10I0759.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

Deborah Griffiths
Senior Project Manager

Revised
9/27/2010

WORK ORDER SAMPLE SUMMARY

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Project: Bautsch - Gray Mine Site
Lab Order: 10I0759

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10I0759-01	BG-Soil A-092110		09/21/2010 14:30	9/22/2010 10:00:00AM
10I0759-02	BG-Soil B-092110		09/21/2010 14:35	9/22/2010 10:00:00AM
10I0759-03	BG-Soil C-092110		09/21/2010 14:40	9/22/2010 10:00:00AM
10I0759-04	BG-Soil D-092110		09/21/2010 14:45	9/22/2010 10:00:00AM

Revised
9/27/2010

CASE NARRATIVE

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Project: Bautsch - Gray Mine Site
Lab Order: 10I0759

B - the Method Blank associated with these samples contained Lead at a level above the reporting limit. This is considered insignificant, as the concentration in the sample was below more than ten-times that measured in the blank.

This report was revised to correct the sample ID for 10I0759-04.

Revised
9/27/2010

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil A-092110
Sample Description:
Matrix: Solid

Work Order/ID: 10I0759-01
Sampled: 09/21/2010 14:30
Received: 09/22/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/23/2010 07:16**	
Arsenic	A	***9.2***	0.47		mg/Kg	1	09/23/2010 10:58
Lead	A	***110***	0.35	B	mg/Kg	1	09/23/2010 10:58
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **cstas** Prep Date/Time: **09/22/2010 13:41**	
Percent Solids	A	***89***	0.10		wt%	1	09/23/2010 6:30

Revised
9/27/2010

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil B-092110
Sample Description:
Matrix: Solid

Work Order/ID: 10I0759-02
Sampled: 09/21/2010 14:35
Received: 09/22/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/23/2010 07:16**	
Arsenic	A	***12***	0.50		mg/Kg	1	09/23/2010 11:04
Lead	A	***130***	0.38	B	mg/Kg	1	09/23/2010 11:04
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **cstas** Prep Date/Time: **09/22/2010 13:41**	
Percent Solids	A	***87***	0.10		wt%	1	09/23/2010 6:30

Revised
9/27/2010

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil C-092110
Sample Description:
Matrix: Solid

Work Order/ID: 10I0759-03
Sampled: 09/21/2010 14:40
Received: 09/22/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/23/2010 07:16**	
Arsenic	A	***10***	0.50		mg/Kg	1	09/23/2010 11:09
Lead	A	***77***	0.37	B	mg/Kg	1	09/23/2010 11:09
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **cstas** Prep Date/Time: **09/22/2010 13:41**	
Percent Solids	A	***90***	0.10		wt%	1	09/23/2010 6:30

Revised
9/27/2010

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil D-092110
Sample Description:
Matrix: Solid

Work Order/ID: 10I0759-04
Sampled: 09/21/2010 14:45
Received: 09/22/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: **SW-846 6010B** Prep Method: **SW846 3050B**				Analyst: **SA** Prep Date/Time: **09/23/2010 07:16**	
Arsenic	A	***13***	0.48		mg/Kg	1	09/23/2010 11:15
Lead	A	***170***	0.36	B	mg/Kg	1	09/23/2010 11:15
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **cstas** Prep Date/Time: **09/22/2010 13:41**	
Percent Solids	A	***92***	0.10		wt%	1	09/23/2010 6:30

Revised
9/27/2010

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)
Indiana DEM approved support laboratory for solid waste and wastewater analyses
Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)
Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)
Kentucky DEP for the chemical analysis of drinking water (lab #90147)
Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)
*New York SDH for the chemical analysis of air and emissions (lab #11909)
North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)
Tennessee DEC for the chemical analysis of drinking water (lab #04017)
Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

Revised
9/27/2010

COOLER INSPECTION

Date: Monday, September 27, 2010

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date/Time Received: 09/22/2010 10:00

Work Order Number: 10I0759

Received by: Ken Smith

Checklist completed by: 9/22/2010 10:17:00AM | Ken Smith

Reviewed by: 9/22/2010 | DDG

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 12.00°C

After-Hour Arrival?	Yes	☐	No	☑		
Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present	☐
Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	Not Present	☑
Custody seals intact on sample containers?	Yes	☐	No	☐	Not Present	☑
COC present?	Yes	☑	No	☐		
COC included sufficient client identification?	Yes	☑	No	☐		
COC included sufficient sample collector information?	Yes	☑	No	☐		
COC included a sample description?	Yes	☑	No	☐		
COC agrees with sample labels?	Yes	☑	No	☐		
COC identified the appropriate matrix?	Yes	☑	No	☐		
COC included date of collection?	Yes	☑	No	☐		
COC included time of collection?	Yes	☑	No	☐		
COC identified the appropriate number of containers?	Yes	☑	No	☐		
Samples in proper container/bottle?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
If the samples are preserved, are the preservatives identified?	Yes	☑	No	☐		
COC included the requested analyses?	Yes	☑	No	☐		

If No, adjusted by? _____

COC signed when relinquished and received?	Yes	☑	No	☐		
Samples received on ice?	Yes	☑	No	☐		
Samples properly preserved?	Yes	☑	No	☐		
Voa vials for aqueous samples have zero headspace?	Yes	☐	No	☐	No VOA vials submitted	☑

Cooler Comments:

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10I0759-01	BG-Soil A-092110	
10I0759-02	BG-Soil B-092110	
10I0759-03	BG-Soil C-092110	
10I0759-04	BG-Soil D-092110	

Revised
9/27/2010

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Metals - Quality Control**
Work Order: 10I0759
Project: Bautsch - Gray Mine Site

Batch: B006398 **Prep:** SW846 3050B

Total Metals by ICP

Sample ID: Blank (B006398-BLK1) **Method:** SW-846 6010B **Prepped:** 09/23/2010 07:16
Source: **Analyzed:** 09/23/2010 10:44

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	ND	0.50	mg/Kg							
Lead	0.40	0.38	mg/Kg							

Sample ID: LCS (B006398-BS1) **Method:** SW-846 6010B **Prepped:** 09/23/2010 07:16
Source: **Analyzed:** 09/23/2010 10:50

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	228	1.0	mg/Kg	238.0		95.7	65.1-118		20	
Lead	140	0.75	mg/Kg	154.0		90.8	62.9-110		20	

Sample ID: Matrix Spike (B006398-MS1) **Method:** SW-846 6010B **Prepped:** 09/23/2010 07:16
Source: 10I0759-04 **Analyzed:** 09/23/2010 11:20

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	100	0.47	mg/Kg	93.46	12.6	93.9	75-125		20	
Lead	269	0.35	mg/Kg	93.46	173	102	75-125		20	

Sample ID: Matrix Spike Dup (B006398-MSD1) **Method:** SW-846 6010B **Prepped:** 09/23/2010 07:16
Source: 10I0759-04 **Analyzed:** 09/23/2010 11:26

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	104	0.47	mg/Kg	94.34	12.6	96.6	75-125	3.29	20	
Lead	318	0.35	mg/Kg	94.34	173	154	75-125	16.8	20	S

Revised
9/27/2010

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Wet Chemistry - Quality Control**
Work Order: 10I0759
Project: Bautsch - Gray Mine Site

Batch: B006372

Percent Solids

Sample ID: Duplicate (B006372-DUP1) **Method:** SM2540B Rev 18 **Prepped:** 09/22/2010 13:41
Source: 10I0753-01 **Analyzed:** 09/23/2010 06:30

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Percent Solids	88.6	0.10	wt%		87.6			1.15	20	

STAT Analysis Corporation
2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com AIHA, NVLAP and NELAP accredited

CHAIN OF CUSTODY RECORD

Nº: 833613 Page : 1 of 1

Company: LATA / KEMRON
Project Number: Client Tracking No.:
Project Name: BAUTSCH-GRAY MINE RV
Project Location: GALENA, IL
Sampler(s): JEFF BRYNIARSKI (708-284-2490)
Report To: VERNON GILES Phone:
JEFF BRYNIARSKI Fax: jeff.bryniarski@westonsolutions.com
QC Level: 1 2 X 3 4 e-mail: vgiles@kemron.com

P.O. No.:
Quote No.:

RUSH
Turn Around: 24-HOUR TAT
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	LEAD	ARSENIC	Remarks	Lab No.:
BG-SOIL A-092110	09/21/10	1430	SOIL	X		A	1	X	X		10L0759-01
BG-SOIL B-092110	"	1435	"	X		"	1	X	X		02
BG-SOIL C-092110	"	1440	"	X		"	1	X	X		03
BG-SOIL D-092110	"	1445	"	X		"	1	X	X		04

Relinquished by: (Signature) Date/Time: 09/21/10 17:00
Received by: (Signature) Date/Time:
Relinquished by: (Signature) Date/Time:
Received by: (Signature) Date/Time:
Relinquished by: (Signature) Date/Time:
Received by: (Signature) Date/Time: 9/22/10 1000

Comments: PLEASE EMAIL RESULTS TO BOTH CONTACTS LISTED ABOVE

Preservation Code: A = None B = HNO_3 C = NaOH D = H_2SO_4 E = HCl F = 5035/EnCore G = Other

Laboratory Work Order No.: 10L0759

Received on Ice: Yes [X] No [ ]

Temperature: 12 °C

10l0759 Deborah Griffiths
LATA-Kemron Remediation LLC - Albuquerque, NM
Bautsch - Gray Mine Site
09/22/2010
Page 12 of 13

ATTACHMENT D
SOIL BACKFILL RESULTS

October 4, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10J0003

Re: Bautsch - Gray Mine Site

Dear Vernon Giles:

Microbac Laboratories, Inc. - Chicagoland Division received 2 sample(s) on 10/1/2010 8:54:00AM for the analyses presented in the following report as Work Order 10J0003.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

Deborah Griffiths
Senior Project Manager

WORK ORDER SAMPLE SUMMARY

Date: *Monday, October 4, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Project: Bautsch - Gray Mine Site
Lab Order: 10J0003

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10J0003-01	BH1		09/16/2010 12:30	10/1/2010 8:54:00AM
10J0003-02	BG Sproule - 092210		09/22/2010 15:30	10/1/2010 8:54:00AM

Analytical Results

Date: *Monday, October 4, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH1
Sample Description:
Matrix: Solid

Work Order/ID: 10J0003-01
Sampled: 09/16/2010 12:30
Received: 10/01/2010 8:54

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 9045C**					Analyst: **CS**
pH							Prep Date/Time: **10/01/2010 15:50**
pH	A	***8.67***	2.00		pH Units	1	10/01/2010 16:10

Analytical Results

Date: *Monday, October 4, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG Sproule - 092210
Work Order/ID: 10J0003-02
Sample Description:
Sampled: 09/22/2010 15:30
Matrix: Solid
Received: 10/01/2010 8:54

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 9045C**					Analyst: **CS**
pH							Prep Date/Time: **10/01/2010 15:50**
pH	A	***6.45***	2.00		pH Units	1	10/01/2010 16:10

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)
Indiana DEM approved support laboratory for solid waste and wastewater analyses
Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)
Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)
Kentucky DEP for the chemical analysis of drinking water (lab #90147)
Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)
*New York SDH for the chemical analysis of air and emissions (lab #11909)
North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)
Tennessee DEC for the chemical analysis of drinking water (lab #04017)
Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

Microbac®

COOLER INSPECTION

Date: Monday, October 4, 2010

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date/Time Received: 10/01/2010 08:54

Work Order Number: 10J0003

Received by: Dave Bryant

Checklist completed by: 10/1/2010 8:54:00AM | Dave Bryant

Reviewed by: 10/1/2010 | DDG

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 4.00°C

After-Hour Arrival?	Yes	☐	No	☑		
Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present	☐
Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	Not Present	☑
Custody seals intact on sample containers?	Yes	☐	No	☐	Not Present	☑
COC present?	Yes	☑	No	☐		
COC included sufficient client identification?	Yes	☑	No	☐		
COC included sufficient sample collector information?	Yes	☑	No	☐		
COC included a sample description?	Yes	☑	No	☐		
COC agrees with sample labels?	Yes	☑	No	☐		
COC identified the appropriate matrix?	Yes	☑	No	☐		
COC included date of collection?	Yes	☑	No	☐		
COC included time of collection?	Yes	☑	No	☐		
COC identified the appropriate number of containers?	Yes	☑	No	☐		
Samples in proper container/bottle?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
If the samples are preserved, are the preservatives identified?	Yes	☑	No	☐		
COC included the requested analyses?	Yes	☑	No	☐		

If No, adjusted by? _____

COC signed when relinquished and received?	Yes	☑	No	☐		
Samples received on ice?	Yes	☑	No	☐		
Samples properly preserved?	Yes	☑	No	☐		
Voa vials for aqueous samples have zero headspace?	Yes	☐	No	☐	No VOA vials submitted	☑

Cooler Comments: Client requested re-log

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10J0003-01	BH1	
10J0003-02	BG Sproule - 092210	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Work Order: 10J0003
Project: Bautsch - Gray Mine Site

Wet Chemistry - Quality Control

Batch: B006713

pH

Sample ID: Duplicate (B006713-DUP1) **Method:** SW-846 9045C **Prepped:** 10/01/2010 15:50
Source: 10I0637-01 **Analyzed:** 10/01/2010 16:10

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
pH	8.610	2.00	pH Units		9.020			4.65	20	

Microbac®

Samples Submitted to: [X] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664

[ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

RUSH

Chain of Custody Record

Number 98239

Instructions on back

ent Name LATA-Kemron Remediation LLC
dress 2424 Louisiana Blvd. NE Ste 400
y, State, Zip Albuquerque, NM. 87110
ntact Tom Urmson
lephone # 859 621-7646

Project Bautsch Gray Mine Site
Location Galena, IL.
PO #
Compliance Monitoring? [ ] Yes(1) [X] No
(1)Agency/Program

Turnaround Time
[X] Routine (7 working days)
[ ] RUSH* (notify lab)
(needed by)

Report Type
[ ] Results Only [X] Level II
[ ] Level III [ ] Level III CLP-like
[ ] Level IV [ ] Level IV CLP-like
[ ] EDD

mpled by (PRINT) Tom Urmson Sampler Signature Sampler Phone #

nd Report via [ ] Mail [ ] Telephone [ ] Fax (fax #) [X] e-mail (address) tomurmson@gmail.com

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types **	VOCs	SVOCs	RCRA MET	PCBs	Ph 10/1/10			For Lab Use Only 10J0003 ~~10I0632~~
BH1	S	✓			9/16/10	12:30	5	Various	✓	✓	✓	✓				01
~~BH2~~	~~S~~	~~✓~~			~~9/16/10~~	~~12:40~~	~~5~~	~~Various~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~				~~02~~

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive

Sample Disposition [ ] Dispose as appropriate [ ] Return [ ] Archive

Comments	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
	Tom Urmson			
	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
Sample temperature upon receipt in degrees C = 4C [illegible]	Relinquished By (signature)	Date/Time	Received for Lab By (signature) Der [illegible]	Date/Time 9/17/10 1000

rev. 11/04/04

Page ___ of ___

10J0003 Deborah Griffiths 10/01/2010
LATA-Kemron Remediation LLC - Albuquerque, NM
Bautsch - Grav Mine Site

Microbac®

Samples Submitted to: [X] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664
[ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

Chain of Custody Record

Number 98246

Instructions on back

RUSH

nt Name LATA-KEMRON
Iress 756 PARK MEADOW
, State, Zip WESTOR VILLE, OH 43081
ntact VERNON GILES
ephone # 404-353-0337

Project BAUTSCH-GRAY MINE RV
Location GALENA, IL
PO #
Compliance Monitoring? [ ] Yes(1) [X] No
(1)Agency/Program

Turnaround Time
[X] Routine (7 working days)
[ ] RUSH* (notify lab)
(needed by)

Report Type
[ ] Results Only [X] Level II
[ ] Level III [ ] Level III CLP-like
[ ] Level IV [ ] Level IV CLP-like
[ ] EDD

npled by (PRINT) JEFF BRYNIARSKY
Sampler Signature [signature]
Sampler Phone # 708-284-2490

d Report via [ ] Mail [ ] Telephone [ ] Fax (fax #) [X] e-mail (address) vgiles@kemron.com

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → / Preservative Types ** ↓	VOCs	SVOCs	RCRA Metals	PCBs Herb	Pb/Lot/HD				For Lab Use Only
BG-SPROULE-092210	S	X			09/22/10	15:30	5	VARIOUS	X	X	X	X					~~10I0803~~ 10J0003 02

Possible Hazard Identification [ ] Hazardous [X] Non-Hazardous [ ] Radioactive
Sample Disposition [ ] Dispose as appropriate [ ] Return [X] Archive

Comments

Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
[signature]	09/22/10 17:00		
Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
Relinquished By (signature)	Date/Time	Received for Lab By (signature)	Date/Time
		[signature] Smith	9/23/10 0945

Sample temperature upon receipt in degrees C =

rev. 11/04/04

Page ___ of ___

September 27, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10I0805

Re: Bautsch - Gray Mine Site

Dear Vernon Giles:

Microbac Laboratories, Inc. - Chicagoland Division received 1 sample(s) on 9/23/2010 9:45:00AM for the analyses presented in the following report as Work Order 10I0805.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

Deborah Griffiths
Senior Project Manager

WORK ORDER SAMPLE SUMMARY

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Project: Bautsch - Gray Mine Site
Lab Order: 10I0805

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10I0805-01	BG Sproule - 092210		09/22/2010 15:30	9/23/2010 9:45:00AM

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG Sproule - 092210
Sample Description:
Matrix: Solid

Work Order/ID: 10I0805-01
Sampled: 09/22/2010 15:30
Received: 09/23/2010 9:45

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 8082**					Analyst: **jw**
Polychlorinated Biphenyls		Prep Method: **SW846 3550**					Prep Date/Time: **09/23/2010 11:09**
Aroclor 1016	A	***ND***	41		µg/Kg dry	1	09/23/2010 20:41
Aroclor 1221	A	***ND***	41		µg/Kg dry	1	09/23/2010 20:41
Aroclor 1232	A	***ND***	41		µg/Kg dry	1	09/23/2010 20:41
Aroclor 1242	A	***ND***	41		µg/Kg dry	1	09/23/2010 20:41
Aroclor 1248	A	***ND***	41		µg/Kg dry	1	09/23/2010 20:41
Aroclor 1254	A	***ND***	41		µg/Kg dry	1	09/23/2010 20:41
Aroclor 1260	A	***ND***	41		µg/Kg dry	1	09/23/2010 20:41
Aroclor 1262	A	***ND***	41		µg/Kg dry	1	09/23/2010 20:41
Aroclor 1268	A	***ND***	41		µg/Kg dry	1	09/23/2010 20:41
Total PCB's	A	***ND***	41		µg/Kg dry	1	09/23/2010 20:41
Surr: Decachlorobiphenyl	S	90.00	38-128		%REC	1	09/23/2010 20:41
Surr: Tetrachloro-m-xylene	S	75.00	40-130		%REC	1	09/23/2010 20:41
		Method: **SW-846 8270C**					Analyst: **cr**
Semivolatile Organic Compounds		Prep Method: **SW846 3550A**					Prep Date/Time: **09/23/2010 12:00**
1,2,4-Trichlorobenzene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
1,2-Dichlorobenzene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
1,2-Diphenyl-hydrazine	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
1,3-Dichlorobenzene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
1,4-Dichlorobenzene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
2,2´-oxybis(1-chloropropane)	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
2,4,5-Trichlorophenol	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
2,4,6-Trichlorophenol	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
2,4-Dichlorophenol	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
2,4-Dimethylphenol	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
2,4-Dinitrophenol	A	***ND***	2000		µg/Kg dry	1	09/23/2010 13:59
2,4-Dinitrotoluene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
2,6-Dichlorophenol	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
2,6-Dinitrotoluene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
2-Chloronaphthalene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
2-Chlorophenol	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
2-Methyl-4,6-dinitrophenol	A	***ND***	2000		µg/Kg dry	1	09/23/2010 13:59
2-Methylnaphthalene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
2-Methylphenol	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
2-Nitroaniline	A	***ND***	2000		µg/Kg dry	1	09/23/2010 13:59
2-Nitrophenol	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
3,3´-Dichlorobenzidine	A	***ND***	2000		µg/Kg dry	1	09/23/2010 13:59
3,4-Benzofluoranthene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
3/4-Methylphenol	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
3-Nitroaniline	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
4,6-Dinitro-2-methylphenol	A	***ND***	2000		µg/Kg dry	1	09/23/2010 13:59
4,6-Dinitro-o-cresol	A	***ND***	2000		µg/Kg dry	1	09/23/2010 13:59

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG Sproule - 092210
Sample Description:
Matrix: Solid

Work Order/ID: 10I0805-01
Sampled: 09/22/2010 15:30
Received: 09/23/2010 9:45

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 8270C**					Analyst: **cr**
Semivolatile Organic Compounds		Prep Method: **SW846 3550A**					Prep Date/Time: **09/23/2010 12:00**
4-Bromophenyl phenyl ether	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
4-Chloro-3-methylphenol	A	***ND***	830		µg/Kg dry	1	09/23/2010 13:59
4-Chloroaniline	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
4-Chlorophenyl phenyl ether	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
4-Nitroaniline	A	***ND***	2000		µg/Kg dry	1	09/23/2010 13:59
4-Nitrophenol	A	***ND***	2000		µg/Kg dry	1	09/23/2010 13:59
Acenaphthene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Acenaphthylene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Acetophenone	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Aniline	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Anthracene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Benzidine	A	***ND***	2000		µg/Kg dry	1	09/23/2010 13:59
Benzo[a]anthracene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Benzo[a]pyrene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Benzo[b]fluoranthene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Benzo[g,h,i]perylene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Benzo[k]fluoranthene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Benzoic acid	A	***ND***	2000		µg/Kg dry	1	09/23/2010 13:59
Benzyl alcohol	A	***ND***	830		µg/Kg dry	1	09/23/2010 13:59
beta-Chloronaphthalene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Bis(2-chloroethoxy)methane	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Bis(2-chloroethyl)ether	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Bis(2-ethylhexyl)phthalate	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Butyl benzyl phthalate	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Carbazole	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Chrysene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Di(2-ethylhexyl) phthalate	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Dibenz[a,h]anthracene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Dibenzofuran	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Diethyl phthalate	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Dimethyl phthalate	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Di-n-butyl phthalate	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Di-n-octyl phthalate	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Fluoranthene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Fluorene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Hexachlorobenzene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Hexachlorobutadiene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Hexachlorocyclopentadiene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Hexachloroethane	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Indeno[1,2,3cd]pyrene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Isophorone	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG Sproule - 092210
Sample Description:
Matrix: Solid

Work Order/ID: 10I0805-01
Sampled: 09/22/2010 15:30
Received: 09/23/2010 9:45

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Semivolatile Organic Compounds		Method: **SW-846 8270C** Prep Method: **SW846 3550A**				Analyst: **cr** Prep Date/Time: **09/23/2010 12:00**	
m-Dichlorobenzene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Naphthalene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Nitrobenzene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
N-Nitrosodimethylamine	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
N-Nitrosodi-n-propylamine	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
N-Nitrosodiphenylamine	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
o-Chlorophenol	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
p-Chloroaniline	A	***ND***	830		µg/Kg dry	1	09/23/2010 13:59
p-Chloro-m-cresol	A	***ND***	830		µg/Kg dry	1	09/23/2010 13:59
p-Cresol	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Pentachlorophenol	A	***ND***	2000		µg/Kg dry	1	09/23/2010 13:59
Phenanthrene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Phenol	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Pyrene	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Pyridine	A	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Total Cresol	M	***ND***	410		µg/Kg dry	1	09/23/2010 13:59
Surr: 2,4,6-Tribromophenol	S	79.50	13.9-145		%REC	1	09/23/2010 13:59
Surr: 2-Fluorobiphenyl	S	78.90	28.1-110		%REC	1	09/23/2010 13:59
Surr: 2-Fluorophenol	S	69.30	24.5-110		%REC	1	09/23/2010 13:59
Surr: Nitrobenzene-d5	S	71.90	33.6-110		%REC	1	09/23/2010 13:59
Surr: Phenol-d5	S	76.20	29.6-110		%REC	1	09/23/2010 13:59
Surr: Terphenyl-d14	S	82.90	35.8-121		%REC	1	09/23/2010 13:59
Volatile Organic Compounds, 5035 prep, SB preserve		Method: **SW-846 8260B**				Analyst: **JLN** Prep Date/Time: **09/24/2010 08:31**	
1,1,1,2-Tetrachloroethane	A	***ND***	11		µg/Kg dry	1	09/24/2010 12:40
1,1,1-Trichloroethane	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
1,1,2,2-Tetrachloroethane	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
1,1,2-Trichloroethane	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
1,1-Dichloroethane	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
1,1-Dichloroethene	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
1,2-Dichloroethane	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
1,2-Dichloropropane	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
2-Butanone	A	***75***	11		µg/Kg dry	1	09/24/2010 12:40
2-Hexanone	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
4-Methyl-2-Pentanone	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
Acetone	A	***840***	56	E	µg/Kg dry	1	09/24/2010 12:40
Acrolein	A	***ND***	110		µg/Kg dry	1	09/24/2010 12:40
Acrylonitrile	A	***ND***	110		µg/Kg dry	1	09/24/2010 12:40
Benzene	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
Bromodichloromethane	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
Bromoform	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG Sproule - 092210
Sample Description:
Matrix: Solid

Work Order/ID: 10I0805-01
Sampled: 09/22/2010 15:30
Received: 09/23/2010 9:45

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 8260B**					Analyst: **JLN**
Volatile Organic Compounds, 5035 prep, SB preserve							Prep Date/Time: **09/24/2010 08:31**
Bromomethane	A	***ND***	11		µg/Kg dry	1	09/24/2010 12:40
Carbon Disulfide	A	***ND***	11		µg/Kg dry	1	09/24/2010 12:40
Carbon tetrachloride	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
Chlorobenzene	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
Chloroethane	A	***ND***	11		µg/Kg dry	1	09/24/2010 12:40
Chloroform	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
Chloromethane	A	***ND***	11		µg/Kg dry	1	09/24/2010 12:40
cis-1,2-Dichloroethene	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
cis-1,3-Dichloropropene	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
Dibromochloromethane	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
Ethylbenzene	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
m,p-Xylene	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
Methylene chloride	A	***ND***	22		µg/Kg dry	1	09/24/2010 12:40
Methyl-t-Butyl Ether	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
o-Xylene	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
Styrene	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
Tetrachloroethene	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
Toluene	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
trans-1,2-Dichloroethene	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
trans-1,3-Dichloropropene	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
Trichloroethene	A	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
Trichlorofluoromethane	A	***ND***	11		µg/Kg dry	1	09/24/2010 12:40
Vinyl Acetate	A	***ND***	11		µg/Kg dry	1	09/24/2010 12:40
Vinyl chloride	A	***ND***	11		µg/Kg dry	1	09/24/2010 12:40
Total 1,2-Dichloroethene	M	***ND***	11		µg/Kg dry	1	09/24/2010 12:40
Total Xylenes	M	***ND***	5.6		µg/Kg dry	1	09/24/2010 12:40
Surr: 1,2-Dichloroethane-d4	S	106.00	51.7-162		%REC	1	09/24/2010 12:40
Surr: 4-Bromofluorobenzene	S	93.80	57.4-135		%REC	1	09/24/2010 12:40
Surr: Dibromofluoromethane	S	102.00	63.5-139		%REC	1	09/24/2010 12:40
Surr: Toluene-d8	S	111.00	66.6-143		%REC	1	09/24/2010 12:40
		Method: **SW-846 6010B**					Analyst: **SA**
Total Metals by ICP		Prep Method: **SW846 3050B**					Prep Date/Time: **09/24/2010 07:55**
Arsenic	A	***6.1***	0.63		mg/Kg dry	1	09/25/2010 1:25
Barium	A	***150***	0.13		mg/Kg dry	1	09/25/2010 1:25
Cadmium	A	***0.20***	0.13		mg/Kg dry	1	09/25/2010 1:25
Chromium	A	***13***	0.19		mg/Kg dry	1	09/25/2010 1:25
Lead	A	***17***	0.47		mg/Kg dry	1	09/25/2010 1:25
Selenium	A	***ND***	1.9		mg/Kg dry	1	09/25/2010 1:25
Silver	A	***ND***	0.63		mg/Kg dry	1	09/25/2010 1:25
		Method: **SW-846 7471A**					Analyst: **SA**
Total Mercury by CVAA		Prep Method: **SW-846 7471**					Prep Date/Time: **09/24/2010 08:20**

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG Sproule - 092210
Sample Description:
Matrix: Solid

Work Order/ID: 10I0805-01
Sampled: 09/22/2010 15:30
Received: 09/23/2010 9:45

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Mercury by CVAA		Method: **SW-846 7471A** Prep Method: **SW-846 7471**				Analyst: **SA** Prep Date/Time: **09/24/2010 08:20**	
Mercury	A	***ND***	0.041		mg/Kg dry	1	09/24/2010 14:01
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **GOEHL** Prep Date/Time: **09/24/2010 13:00**	
Percent Solids	A	***80***	0.10		wt%	1	09/27/2010 8:00

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)
Indiana DEM approved support laboratory for solid waste and wastewater analyses
Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)
Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)
Kentucky DEP for the chemical analysis of drinking water (lab #90147)
Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)
*New York SDH for the chemical analysis of air and emissions (lab #11909)
North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)
Tennessee DEC for the chemical analysis of drinking water (lab #04017)
Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

Microbac®

COOLER INSPECTION

Date: Monday, September 27, 2010

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date/Time Received: 09/23/2010 09:45

Work Order Number: 10I0805

Received by: Ken Smith

Checklist completed by: 9/23/2010 9:58:00AM | Ken Smith

Reviewed by: 9/23/2010 | DDG

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 21.00°C

After-Hour Arrival?	Yes	☐	No	☑		
Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present	☐
Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	Not Present	☑
Custody seals intact on sample containers?	Yes	☐	No	☐	Not Present	☑
COC present?	Yes	☑	No	☐		
COC included sufficient client identification?	Yes	☑	No	☐		
COC included sufficient sample collector information?	Yes	☑	No	☐		
COC included a sample description?	Yes	☑	No	☐		
COC agrees with sample labels?	Yes	☑	No	☐		
COC identified the appropriate matrix?	Yes	☑	No	☐		
COC included date of collection?	Yes	☑	No	☐		
COC included time of collection?	Yes	☑	No	☐		
COC identified the appropriate number of containers?	Yes	☑	No	☐		
Samples in proper container/bottle?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
If the samples are preserved, are the preservatives identified?	Yes	☑	No	☐		
COC included the requested analyses?	Yes	☑	No	☐		

If No, adjusted by? _____

COC signed when relinquished and received?	Yes	☑	No	☐		
Samples received on ice?	Yes	☐	No	☑		
Samples properly preserved?	Yes	☑	No	☐		
Voa vials for aqueous samples have zero headspace?	Yes	☐	No	☐	No VOA vials submitted	☑

Cooler Comments:

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10I0805-01	BG Sproule - 092210	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GC Semivolatiles - Quality Control**
Work Order: 10I0805
Project: Bautsch - Gray Mine Site

Batch: B006403 **Prep:** SW846 3550

Polychlorinated Biphenyls

Sample ID: Blank (B006403-BLK2) **Method:** SW-846 8082 **Prepped:** 09/23/2010 11:09
Source: **Analyzed:** 09/23/2010 18:35

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	ND	33	µg/Kg wet							
Aroclor 1221	ND	33	µg/Kg wet							
Aroclor 1232	ND	33	µg/Kg wet							
Aroclor 1242	ND	33	µg/Kg wet							
Aroclor 1248	ND	33	µg/Kg wet							
Aroclor 1254	ND	33	µg/Kg wet							
Aroclor 1260	ND	33	µg/Kg wet							
Aroclor 1262	ND	33	µg/Kg wet							
Aroclor 1268	ND	33	µg/Kg wet							
Total PCB's	ND	33	µg/Kg wet							
Surrogate: Decachlorobiphenyl	*7.3*		µg/Kg wet	*6.667*		*110*	*38-128*			
Surrogate: Tetrachloro-m-xylene	*6.3*		µg/Kg wet	*6.667*		*95.0*	*40-130*			

Sample ID: LCS (B006403-BS2) **Method:** SW-846 8082 **Prepped:** 09/23/2010 11:09
Source: **Analyzed:** 09/23/2010 19:00

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	169	33	µg/Kg wet	166.7		102	30.2-145		30	
Aroclor 1260	165	33	µg/Kg wet	166.7		99.2	40.1-138		30	
Surrogate: Decachlorobiphenyl	*7.0*		µg/Kg wet	*6.667*		*105*	*38-128*			
Surrogate: Tetrachloro-m-xylene	*6.0*		µg/Kg wet	*6.667*		*90.0*	*40-130*			

Sample ID: Matrix Spike (B006403-MS2) **Method:** SW-846 8082 **Prepped:** 09/23/2010 11:09
Source: 10I0753-01 **Analyzed:** 09/23/2010 19:50

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	189	38	µg/Kg dry	190.4	ND	99.4	27.2-130		40	
Aroclor 1260	178	38	µg/Kg dry	190.4	ND	93.7	23.8-131		40	
Surrogate: Decachlorobiphenyl	*7.2*		µg/Kg dry	*7.615*		*95.0*	*38-128*			
Surrogate: Tetrachloro-m-xylene	*6.9*		µg/Kg dry	*7.615*		*90.0*	*40-130*			

Sample ID: Matrix Spike Dup (B006403-MSD2) **Method:** SW-846 8082 **Prepped:** 09/23/2010 11:09
Source: 10I0753-01 **Analyzed:** 09/23/2010 20:15

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	192	38	µg/Kg dry	190.4	ND	101	27.2-130	1.72	40	
Aroclor 1260	178	38	µg/Kg dry	190.4	ND	93.6	23.8-131	0.128	40	
Surrogate: Decachlorobiphenyl	*7.6*		µg/Kg dry	*7.615*		*100*	*38-128*			
Surrogate: Tetrachloro-m-xylene	*6.9*		µg/Kg dry	*7.615*		*90.0*	*40-130*			

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Work Order: 10I0805
Project: Bautsch - Gray Mine Site

GCMS Semivolatiles - Quality Control

Batch: B006388 **Prep:** SW846 3550A

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Semivolatiles - Quality Control**
Work Order: 10I0805
Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Semivolatile Organic Compounds

Sample ID: Blank (B006388-BLK1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: **Analyzed:** 09/23/2010 10:25

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene	ND	330	µg/Kg wet							
1,2-Dichlorobenzene	ND	330	µg/Kg wet							
1,2-Diphenyl-hydrazine	ND	330	µg/Kg wet							
1,3-Dichlorobenzene	ND	330	µg/Kg wet							
1,4-Dichlorobenzene	ND	330	µg/Kg wet							
2,2´-oxybis(1-chloropropane)	ND	330	µg/Kg wet							
2,4,5-Trichlorophenol	ND	330	µg/Kg wet							
2,4,6-Trichlorophenol	ND	330	µg/Kg wet							
2,4-Dichlorophenol	ND	330	µg/Kg wet							
2,4-Dimethylphenol	ND	330	µg/Kg wet							
2,4-Dinitrophenol	ND	1600	µg/Kg wet							
2,4-Dinitrotoluene	ND	330	µg/Kg wet							
2,6-Dichlorophenol	ND	330	µg/Kg wet							
2,6-Dinitrotoluene	ND	330	µg/Kg wet							
2-Chloronaphthalene	ND	330	µg/Kg wet							
2-Chlorophenol	ND	330	µg/Kg wet							
2-Methyl-4,6-dinitrophenol	ND	1600	µg/Kg wet							
2-Methylnaphthalene	ND	330	µg/Kg wet							
2-Methylphenol	ND	330	µg/Kg wet							
2-Nitroaniline	ND	1600	µg/Kg wet							
2-Nitrophenol	ND	330	µg/Kg wet							
3,3´-Dichlorobenzidine	ND	1600	µg/Kg wet							
3,4-Benzofluoranthene	ND	330	µg/Kg wet							
3/4-Methylphenol	ND	330	µg/Kg wet							
3-Nitroaniline	ND	330	µg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	1600	µg/Kg wet							
4,6-Dinitro-o-cresol	ND	1600	µg/Kg wet							
4-Bromophenyl phenyl ether	ND	330	µg/Kg wet							
4-Chloro-3-methylphenol	ND	660	µg/Kg wet							
4-Chloroaniline	ND	330	µg/Kg wet							
4-Chlorophenyl phenyl ether	ND	330	µg/Kg wet							
4-Nitroaniline	ND	1600	µg/Kg wet							
4-Nitrophenol	ND	1600	µg/Kg wet							
Acenaphthene	ND	330	µg/Kg wet							
Acenaphthylene	ND	330	µg/Kg wet							
Acetophenone	ND	330	µg/Kg wet							
Aniline	ND	330	µg/Kg wet							
Anthracene	ND	330	µg/Kg wet							
Benzidine	ND	1600	µg/Kg wet							

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Semivolatiles - Quality Control**
Work Order: 10I0805
Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Sample ID: Blank (B006388-BLK1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: **Analyzed:** 09/23/2010 10:25

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Benzo[a]anthracene	ND	330	µg/Kg wet							
Benzo[a]pyrene	ND	330	µg/Kg wet							
Benzo[b]fluoranthene	ND	330	µg/Kg wet							
Benzo[g,h,i]perylene	ND	330	µg/Kg wet							
Benzo[k]fluoranthene	ND	330	µg/Kg wet							
Benzoic acid	ND	1600	µg/Kg wet							
Benzyl alcohol	ND	660	µg/Kg wet							
beta-Chloronaphthalene	ND	330	µg/Kg wet							
Bis(2-chloroethoxy)methane	ND	330	µg/Kg wet							
Bis(2-chloroethyl)ether	ND	330	µg/Kg wet							
Bis(2-ethylhexyl)phthalate	ND	330	µg/Kg wet							
Butyl benzyl phthalate	ND	330	µg/Kg wet							
Carbazole	ND	330	µg/Kg wet							
Chrysene	ND	330	µg/Kg wet							
Di(2-ethylhexyl) phthalate	ND	330	µg/Kg wet							
Dibenz[a,h]anthracene	ND	330	µg/Kg wet							
Dibenzofuran	ND	330	µg/Kg wet							
Diethyl phthalate	ND	330	µg/Kg wet							
Dimethyl phthalate	ND	330	µg/Kg wet							
Di-n-butyl phthalate	ND	330	µg/Kg wet							
Di-n-octyl phthalate	ND	330	µg/Kg wet							
Fluoranthene	ND	330	µg/Kg wet							
Fluorene	ND	330	µg/Kg wet							
Hexachlorobenzene	ND	330	µg/Kg wet							
Hexachlorobutadiene	ND	330	µg/Kg wet							
Hexachlorocyclopentadiene	ND	330	µg/Kg wet							
Hexachloroethane	ND	330	µg/Kg wet							
Indeno[1,2,3cd]pyrene	ND	330	µg/Kg wet							
Isophorone	ND	330	µg/Kg wet							
m-Dichlorobenzene	ND	330	µg/Kg wet							
Naphthalene	ND	330	µg/Kg wet							
Nitrobenzene	ND	330	µg/Kg wet							
N-Nitrosodimethylamine	ND	330	µg/Kg wet							
N-Nitrosodi-n-propylamine	ND	330	µg/Kg wet							
N-Nitrosodiphenylamine	ND	330	µg/Kg wet							
o-Chlorophenol	ND	330	µg/Kg wet							
p-Chloroaniline	ND	660	µg/Kg wet							
p-Chloro-m-cresol	ND	660	µg/Kg wet							
p-Cresol	ND	330	µg/Kg wet							
Pentachlorophenol	ND	1600	µg/Kg wet							
Phenanthrene	ND	330	µg/Kg wet							

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Semivolatiles - Quality Control**
Work Order: 10I0805
Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Sample ID: Blank (B006388-BLK1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: **Analyzed:** 09/23/2010 10:25

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Phenol	ND	330	µg/Kg wet							
Pyrene	ND	330	µg/Kg wet							
Pyridine	ND	330	µg/Kg wet							
Total Cresol	ND	330	µg/Kg wet							
Surrogate: 2,4,6-Tribromophenol	*88*		ug/mL	*100.0*		*87.9*	*13.9-145*			
Surrogate: 2-Fluorobiphenyl	*40*		ug/mL	*50.00*		*80.5*	*28.1-110*			
Surrogate: 2-Fluorophenol	*82*		ug/mL	*100.0*		*81.8*	*24.5-110*			
Surrogate: Nitrobenzene-d5	*42*		ug/mL	*50.00*		*83.0*	*33.6-110*			
Surrogate: Phenol-d5	*84*		ug/mL	*100.0*		*83.6*	*29.6-110*			
Surrogate: Terphenyl-d14	*50*		ug/mL	*50.00*		*100*	*35.8-121*			

Sample ID: Blank (B006388-BLK2) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: **Analyzed:** 09/23/2010 10:42

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Acenaphthene	ND	330	µg/Kg wet							
Acenaphthylene	ND	330	µg/Kg wet							
Anthracene	ND	330	µg/Kg wet							
Benzo[a]anthracene	ND	330	µg/Kg wet							
Benzo[a]pyrene	ND	330	µg/Kg wet							
Benzo[b]fluoranthene	ND	330	µg/Kg wet							
Benzo[g,h,i]perylene	ND	330	µg/Kg wet							
Benzo[k]fluoranthene	ND	330	µg/Kg wet							
Chrysene	ND	330	µg/Kg wet							
Dibenz[a,h]anthracene	ND	330	µg/Kg wet							
Fluoranthene	ND	330	µg/Kg wet							
Fluorene	ND	330	µg/Kg wet							
Indeno[1,2,3cd]pyrene	ND	330	µg/Kg wet							
Naphthalene	ND	330	µg/Kg wet							
Phenanthrene	ND	330	µg/Kg wet							
Pyrene	ND	330	µg/Kg wet							
Surrogate: 2,4,6-Tribromophenol	*82*		ug/mL	*100.0*		*82.4*	*13.9-145*			
Surrogate: 2-Fluorobiphenyl	*41*		ug/mL	*50.00*		*81.1*	*28.1-110*			
Surrogate: 2-Fluorophenol	*79*		ug/mL	*100.0*		*79.1*	*24.5-110*			
Surrogate: Nitrobenzene-d5	*39*		ug/mL	*50.00*		*77.7*	*33.6-110*			
Surrogate: Phenol-d5	*82*		ug/mL	*100.0*		*81.6*	*29.6-110*			
Surrogate: Terphenyl-d14	*43*		ug/mL	*50.00*		*86.2*	*35.8-121*			

Sample ID: LCS (B006388-BS1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: **Analyzed:** 09/23/2010 10:49

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene	2210	330	µg/Kg wet	3333		66.4	35.9-110		30	
1,4-Dichlorobenzene	1980	330	µg/Kg wet	3333		59.4	20-124		30	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Semivolatiles - Quality Control**
Work Order: 10I0805
Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Sample ID: LCS (B006388-BS1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: **Analyzed:** 09/23/2010 10:49

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
2,2´-oxybis(1-chloropropane)	2160	330	µg/Kg wet	3333		64.7	10-113		30	
2,4-Dinitrotoluene	2110	330	µg/Kg wet	3333		63.2	42.6-110		30	
2-Chloronaphthalene	2300	330	µg/Kg wet	3333		69.0	19-111		30	
2-Chlorophenol	2230	330	µg/Kg wet	3333		67.0	36.1-110		30	
3,3´-Dichlorobenzidine	2720	1600	µg/Kg wet	3333		81.7	50-150		30	
4-Chloro-3-methylphenol	2420	660	µg/Kg wet	3333		72.5	40.6-119		30	
4-Chlorophenyl phenyl ether	2540	330	µg/Kg wet	3333		76.2	24-113		30	
4-Nitrophenol	2250	1600	µg/Kg wet	3333		67.5	39.1-110		30	
Acenaphthene	2230	330	µg/Kg wet	3333		66.8	42.1-110		30	
Benzo[g,h,i]perylene	2520	330	µg/Kg wet	3333		75.5	50-150		30	
Benzo[k]fluoranthene	2370	330	µg/Kg wet	3333		71.1	28-144		30	
Bis(2-ethylhexyl)phthalate	2430	330	µg/Kg wet	3333		73.0	22-128		30	
Dibenz[a,h]anthracene	2450	330	µg/Kg wet	3333		73.4	26-175		30	
Diethyl phthalate	2530	330	µg/Kg wet	3333		76.0	16-119		30	
Dimethyl phthalate	2370	330	µg/Kg wet	3333		71.0	15-130		30	
Indeno[1,2,3cd]pyrene	2700	330	µg/Kg wet	3333		81.1	50-150		30	
N-Nitrosodi-n-propylamine	2090	330	µg/Kg wet	3333		62.7	38.1-110		30	
Pentachlorophenol	1750	1600	µg/Kg wet	3333		52.6	22.1-110		30	
Phenol	1790	330	µg/Kg wet	3333		53.7	38.9-110		30	
Pyrene	2730	330	µg/Kg wet	3333		82.0	44.3-116		30	
Surrogate: 2,4,6-Tribromophenol	*76*		ug/mL	*100.0*		*76.5*	*13.9-145*			
Surrogate: 2-Fluorobiphenyl	*39*		ug/mL	*50.00*		*77.7*	*28.1-110*			
Surrogate: 2-Fluorophenol	*74*		ug/mL	*100.0*		*74.3*	*24.5-110*			
Surrogate: Nitrobenzene-d5	*36*		ug/mL	*50.00*		*71.9*	*33.6-110*			
Surrogate: Phenol-d5	*68*		ug/mL	*100.0*		*68.1*	*29.6-110*			
Surrogate: Terphenyl-d14	*47*		ug/mL	*50.00*		*93.4*	*35.8-121*			

Sample ID: Matrix Spike (B006388-MS1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: 10I0753-01 **Analyzed:** 09/23/2010 14:48

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene	2920	380	µg/Kg dry	3807	ND	76.6	33.9-110		30	
1,4-Dichlorobenzene	2750	380	µg/Kg dry	3807	ND	72.3	10-134		30	
2,2´-oxybis(1-chloropropane)	2620	380	µg/Kg dry	3807	ND	68.8	10-123		30	
2,4-Dinitrotoluene	3160	380	µg/Kg dry	3807	ND	83.1	49.9-110		30	
2-Chloronaphthalene	2780	380	µg/Kg dry	3807	ND	72.9	10-121		30	
2-Chlorophenol	2880	380	µg/Kg dry	3807	ND	75.7	35.7-110		30	
3,3´-Dichlorobenzidine	3080	1800	µg/Kg dry	3807	ND	80.8	40-160		30	
4-Chloro-3-methylphenol	3300	750	µg/Kg dry	3807	ND	86.6	41.5-121		30	
4-Chlorophenyl phenyl ether	3130	380	µg/Kg dry	3807	ND	82.2	14-123		30	
4-Nitrophenol	2760	1800	µg/Kg dry	3807	ND	72.5	32.1-121		30	
Acenaphthene	3000	380	µg/Kg dry	3807	ND	78.8	39.8-110		30	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Semivolatiles - Quality Control**
Work Order: 10I0805
Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Sample ID: Matrix Spike (B006388-MS1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: 10I0753-01 **Analyzed:** 09/23/2010 14:48

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Benzo[g,h,i]perylene	2400	380	µg/Kg dry	3807	ND	63.1	40-160		30	
Benzo[k]fluoranthene	2110	380	µg/Kg dry	3807	ND	55.5	18-154		30	
Bis(2-ethylhexyl)phthalate	3540	380	µg/Kg dry	3807	ND	92.9	12-138		30	
Dibenz[a,h]anthracene	2540	380	µg/Kg dry	3807	ND	66.7	16-185		30	
Diethyl phthalate	3160	380	µg/Kg dry	3807	ND	83.0	10-129		30	
Dimethyl phthalate	2940	380	µg/Kg dry	3807	ND	77.4	10-140		30	
Indeno[1,2,3cd]pyrene	2620	380	µg/Kg dry	3807	ND	68.9	40-160		30	
N-Nitrosodi-n-propylamine	3110	380	µg/Kg dry	3807	ND	81.6	37.4-110		30	
Pentachlorophenol	2490	1800	µg/Kg dry	3807	ND	65.5	10.6-110		30	
Phenol	2680	380	µg/Kg dry	3807	ND	70.4	43.3-110		30	
Pyrene	2950	380	µg/Kg dry	3807	ND	77.6	37.6-113		30	
Surrogate: 2,4,6-Tribromophenol	*96*		ug/mL	*100.0*		*96.0*	*13.9-145*			
Surrogate: 2-Fluorobiphenyl	*43*		ug/mL	*50.00*		*86.5*	*28.1-110*			
Surrogate: 2-Fluorophenol	*86*		ug/mL	*100.0*		*85.7*	*24.5-110*			
Surrogate: Nitrobenzene-d5	*40*		ug/mL	*50.00*		*79.9*	*33.6-110*			
Surrogate: Phenol-d5	*82*		ug/mL	*100.0*		*82.1*	*29.6-110*			
Surrogate: Terphenyl-d14	*48*		ug/mL	*50.00*		*96.0*	*35.8-121*			

Sample ID: Matrix Spike Dup (B006388-MSD1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: 10I0753-01 **Analyzed:** 09/23/2010 15:13

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene	2560	380	µg/Kg dry	3807	ND	67.2	33.9-110	13.0	30	
1,4-Dichlorobenzene	2150	380	µg/Kg dry	3807	ND	56.4	10-134	24.7	30	
2,2´-oxybis(1-chloropropane)	2350	380	µg/Kg dry	3807	ND	61.7	10-123	10.8	30	
2,4-Dinitrotoluene	2770	380	µg/Kg dry	3807	ND	72.8	49.9-110	13.2	30	
2-Chloronaphthalene	2650	380	µg/Kg dry	3807	ND	69.7	10-121	4.53	30	
2-Chlorophenol	2600	380	µg/Kg dry	3807	ND	68.3	35.7-110	10.2	30	
3,3´-Dichlorobenzidine	3000	1800	µg/Kg dry	3807	ND	78.8	40-160	2.52	30	
4-Chloro-3-methylphenol	2940	750	µg/Kg dry	3807	ND	77.3	41.5-121	11.5	30	
4-Chlorophenyl phenyl ether	3110	380	µg/Kg dry	3807	ND	81.6	14-123	0.781	30	
4-Nitrophenol	2990	1800	µg/Kg dry	3807	ND	78.7	32.1-121	8.11	30	
Acenaphthene	2670	380	µg/Kg dry	3807	ND	70.2	39.8-110	11.6	30	
Benzo[g,h,i]perylene	2320	380	µg/Kg dry	3807	ND	60.9	40-160	3.50	30	
Benzo[k]fluoranthene	2130	380	µg/Kg dry	3807	ND	55.9	18-154	0.808	30	
Bis(2-ethylhexyl)phthalate	3260	380	µg/Kg dry	3807	ND	85.6	12-138	8.13	30	
Dibenz[a,h]anthracene	2490	380	µg/Kg dry	3807	ND	65.3	16-185	2.17	30	
Diethyl phthalate	3120	380	µg/Kg dry	3807	ND	81.9	10-129	1.26	30	
Dimethyl phthalate	2910	380	µg/Kg dry	3807	ND	76.3	10-140	1.34	30	
Indeno[1,2,3cd]pyrene	2650	380	µg/Kg dry	3807	ND	69.6	40-160	0.895	30	
N-Nitrosodi-n-propylamine	2390	380	µg/Kg dry	3807	ND	62.7	37.4-110	26.2	30	
Pentachlorophenol	2520	1800	µg/Kg dry	3807	ND	66.2	10.6-110	1.03	30	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Work Order: 10I0805
Project: Bautsch - Gray Mine Site

GCMS Semivolatiles - Quality Control

Batch: B006388 **Prep:** SW846 3550A

Sample ID: Matrix Spike Dup (B006388-MSD1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: 10I0753-01 **Analyzed:** 09/23/2010 15:13

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Phenol	2160	380	µg/Kg dry	3807	ND	56.6	43.3-110	21.7	30	
Pyrene	3030	380	µg/Kg dry	3807	ND	79.6	37.6-113	2.61	30	
Surrogate: 2,4,6-Tribromophenol	*90*		ug/mL	*100.0*		*90.0*	*13.9-145*			
Surrogate: 2-Fluorobiphenyl	*39*		ug/mL	*50.00*		*77.7*	*28.1-110*			
Surrogate: 2-Fluorophenol	*70*		ug/mL	*100.0*		*69.8*	*24.5-110*			
Surrogate: Nitrobenzene-d5	*36*		ug/mL	*50.00*		*72.9*	*33.6-110*			
Surrogate: Phenol-d5	*69*		ug/mL	*100.0*		*69.3*	*29.6-110*			
Surrogate: Terphenyl-d14	*45*		ug/mL	*50.00*		*89.4*	*35.8-121*			

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Work Order: 10I0805
Project: Bautsch - Gray Mine Site

GCMS Volatiles - Quality Control

Batch: B006439

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Volatiles - Quality Control**
Work Order: 10I0805
Project: Bautsch - Gray Mine Site

Batch: B006439

Volatile Organic Compounds, 5035 prep, SB preserve

Sample ID: Blank (B006439-BLK1) **Method:** SW-846 8260B **Prepped:** 09/24/2010 08:31
Source: **Analyzed:** 09/24/2010 10:12

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	ND	10	µg/Kg wet							
1,1,1-Trichloroethane	ND	5.0	µg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg wet							
1,1,2-Trichloroethane	ND	5.0	µg/Kg wet							
1,1-Dichloroethane	ND	5.0	µg/Kg wet							
1,1-Dichloroethene	ND	5.0	µg/Kg wet							
1,2-Dichloroethane	ND	5.0	µg/Kg wet							
1,2-Dichloropropane	ND	5.0	µg/Kg wet							
2-Butanone	ND	10	µg/Kg wet							
2-Hexanone	ND	5.0	µg/Kg wet							
4-Methyl-2-Pentanone	ND	5.0	µg/Kg wet							
Acetone	ND	50	µg/Kg wet							
Acrolein	ND	100	µg/Kg wet							
Acrylonitrile	ND	100	µg/Kg wet							
Benzene	ND	5.0	µg/Kg wet							
Bromodichloromethane	ND	5.0	µg/Kg wet							
Bromoform	ND	5.0	µg/Kg wet							
Bromomethane	ND	10	µg/Kg wet							
Carbon Disulfide	ND	10	µg/Kg wet							
Carbon tetrachloride	ND	5.0	µg/Kg wet							
Chlorobenzene	ND	5.0	µg/Kg wet							
Chloroethane	ND	10	µg/Kg wet							
Chloroform	ND	5.0	µg/Kg wet							
Chloromethane	ND	10	µg/Kg wet							
cis-1,2-Dichloroethene	ND	5.0	µg/Kg wet							
cis-1,3-Dichloropropene	ND	5.0	µg/Kg wet							
Dibromochloromethane	ND	5.0	µg/Kg wet							
Ethylbenzene	ND	5.0	µg/Kg wet							
m,p-Xylene	ND	5.0	µg/Kg wet							
Methylene chloride	ND	20	µg/Kg wet							
Methyl-t-Butyl Ether	ND	5.0	µg/Kg wet							
o-Xylene	ND	5.0	µg/Kg wet							
Styrene	ND	5.0	µg/Kg wet							
Tetrachloroethene	ND	5.0	µg/Kg wet							
Toluene	ND	5.0	µg/Kg wet							
trans-1,2-Dichloroethene	ND	5.0	µg/Kg wet							
trans-1,3-Dichloropropene	ND	5.0	µg/Kg wet							
Trichloroethene	ND	5.0	µg/Kg wet							
Trichlorofluoromethane	ND	10	µg/Kg wet							

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Volatiles - Quality Control**
Work Order: 10I0805
Project: Bautsch - Gray Mine Site

Batch: B006439

Sample ID: Blank (B006439-BLK1) **Method:** SW-846 8260B **Prepped:** 09/24/2010 08:31
Source: **Analyzed:** 09/24/2010 10:12

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Vinyl Acetate	ND	10	µg/Kg wet							
Vinyl chloride	ND	10	µg/Kg wet							
Total 1,2-Dichloroethene	ND	10	µg/Kg wet							
Total Xylenes	ND	5.0	µg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*52*		µg/L	*50.00*		*105*	*51.7-162*			
Surrogate: 4-Bromofluorobenzene	*49*		µg/L	*50.00*		*98.9*	*57.4-135*			
Surrogate: Dibromofluoromethane	*50*		µg/L	*50.00*		*101*	*63.5-139*			
Surrogate: Toluene-d8	*52*		µg/L	*50.00*		*104*	*66.6-143*			

Sample ID: LCS (B006439-BS1) **Method:** SW-846 8260B **Prepped:** 09/24/2010 08:31
Source: **Analyzed:** 09/24/2010 10:42

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	52.8		µg/L	50.00		106	73.2-127		30	
1,1,1-Trichloroethane	52.6		µg/L	50.00		105	68.4-134		30	
1,1,2,2-Tetrachloroethane	48.5		µg/L	50.00		97.0	67.8-115		30	
1,1,2-Trichloroethane	50.7		µg/L	50.00		101	74-114		30	
1,1-Dichloroethane	53.4		µg/L	50.00		107	70.3-121		30	
1,1-Dichloroethene	44.5		µg/L	50.00		89.1	54-119		30	
1,2-Dichloroethane	51.9		µg/L	50.00		104	65.5-129		30	
1,2-Dichloropropane	52.8		µg/L	50.00		106	68.6-124		30	
2-Butanone	46.4		µg/L	50.00		92.9	55.8-114		30	
2-Hexanone	44.6		µg/L	50.00		89.3	49.9-110			
4-Methyl-2-Pentanone	48.1		µg/L	50.00		96.2	57-114		30	
Acetone	50.6		µg/L	50.00		101	37.2-135		30	
Acrylonitrile	54.5		µg/L	50.00		109	45.3-148		30	
Benzene	51.4		µg/L	50.00		103	71.8-123		30	
Bromodichloromethane	52.7		µg/L	50.00		105	69.4-132		30	
Bromoform	40.5		µg/L	50.00		80.9	54.7-123		30	
Bromomethane	27.7		µg/L	50.00		55.4	10-143		30	
Carbon Disulfide	59.8		µg/L	50.00		120	80-159		30	
Carbon tetrachloride	53.6		µg/L	50.00		107	68.6-138		30	
Chlorobenzene	53.4		µg/L	50.00		107	80.1-122		30	
Chloroethane	59.6		µg/L	50.00		119	53.6-121		30	
Chloroform	53.0		µg/L	50.00		106	71.9-127		30	
Chloromethane	42.6		µg/L	50.00		85.3	28.3-124		30	
cis-1,2-Dichloroethene	53.8		µg/L	50.00		108	81.5-132		30	
cis-1,3-Dichloropropene	53.8		µg/L	50.00		108	74.9-117		30	
Dibromochloromethane	45.6		µg/L	50.00		91.2	65.1-132		30	
Ethylbenzene	55.0		µg/L	50.00		110	77.1-124		30	
m,p-Xylene	109		µg/L	100.0		109	77.4-126		30	
Methylene chloride	50.7		µg/L	50.00		101	69.2-138		30	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Volatiles - Quality Control**
Work Order: 10I0805
Project: Bautsch - Gray Mine Site

Batch: B006439

Sample ID: LCS (B006439-BS1) **Method:** SW-846 8260B **Prepped:** 09/24/2010 08:31
Source: **Analyzed:** 09/24/2010 10:42

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Methyl-t-Butyl Ether	51.1		µg/L	50.00		102	77.8-120		30	
o-Xylene	53.0		µg/L	50.00		106	74.9-124		30	
Styrene	54.7		µg/L	50.00		109	77.7-117		30	
Tetrachloroethene	57.2		µg/L	50.00		114	81.9-127		30	
Toluene	53.8		µg/L	50.00		108	76.7-122		30	
trans-1,2-Dichloroethene	51.1		µg/L	50.00		102	67.6-126		30	
trans-1,3-Dichloropropene	58.4		µg/L	50.00		117	77.6-129		30	
Trichloroethene	53.3		µg/L	50.00		107	73.1-131		30	
Trichlorofluoromethane	54.8		µg/L	50.00		110	61.3-140		30	
Vinyl Acetate	69.9		µg/L	50.00		140	52.4-154		30	
Vinyl chloride	41.1		µg/L	50.00		82.3	48.5-124		30	
Surrogate: 1,2-Dichloroethane-d4	*49*		µg/L	*50.00*		*97.4*	*51.7-162*			
Surrogate: 4-Bromofluorobenzene	*51*		µg/L	*50.00*		*102*	*57.4-135*			
Surrogate: Dibromofluoromethane	*48*		µg/L	*50.00*		*97.0*	*63.5-139*			
Surrogate: Toluene-d8	*52*		µg/L	*50.00*		*104*	*66.6-143*			

Sample ID: Matrix Spike (B006439-MS1) **Method:** SW-846 8260B **Prepped:** 09/24/2010 08:31
Source: 10I0834-01 **Analyzed:** 09/24/2010 15:40

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	57.4		µg/L	50.00	ND	115	52.5-130		30	
1,1,1-Trichloroethane	53.7		µg/L	50.00	ND	107	46.3-135		30	
1,1,2,2-Tetrachloroethane	65.7		µg/L	50.00	ND	131	56-146		30	
1,1,2-Trichloroethane	56.5		µg/L	50.00	ND	113	60.2-129		30	
1,1-Dichloroethane	66.5		µg/L	50.00	ND	133	59-131		30	S
1,1-Dichloroethene	54.3		µg/L	50.00	ND	109	39.1-116		30	
1,2-Dichloroethane	56.0		µg/L	50.00	ND	112	54.7-126		30	
1,2-Dichloropropane	58.6		µg/L	50.00	ND	117	62.9-118		30	
2-Butanone	49.7		µg/L	50.00	ND	99.5	38.1-138		30	
2-Hexanone	45.2		µg/L	50.00	ND	90.3	34-149		30	
4-Methyl-2-Pentanone	60.2		µg/L	50.00	ND	120	31.1-175		30	
Acetone	103		µg/L	50.00	34.0	139	27.9-161		30	
Acrylonitrile	56.8		µg/L	50.00	ND	114	39.4-186		30	
Benzene	60.4		µg/L	50.00	3.50	114	54.8-120		30	
Bromodichloromethane	54.8		µg/L	50.00	ND	110	54.6-122		30	
Bromoform	37.2		µg/L	50.00	ND	74.3	31-122		30	
Bromomethane	-50.0		µg/L	50.00	ND		10.8-142		30	
Carbon Disulfide	67.5		µg/L	50.00	1.68	132	16-177		30	
Carbon tetrachloride	58.8		µg/L	50.00	ND	118	41.6-132		30	
Chlorobenzene	53.9		µg/L	50.00	ND	108	36.8-129		30	
Chloroethane	71.3		µg/L	50.00	ND	143	42.4-126		30	S
Chloroform	60.4		µg/L	50.00	ND	121	64-123		30	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Volatiles - Quality Control**
Work Order: 10I0805
Project: Bautsch - Gray Mine Site

Batch: B006439

Sample ID: Matrix Spike (B006439-MS1) **Method:** SW-846 8260B **Prepped:** 09/24/2010 08:31
Source: 10I0834-01 **Analyzed:** 09/24/2010 15:40

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Chloromethane	51.9		µg/L	50.00	ND	104	45.3-143		30	
cis-1,2-Dichloroethene	59.8		µg/L	50.00	ND	120	67-126		30	
cis-1,3-Dichloropropene	62.4		µg/L	50.00	ND	125	49.9-139		30	
Dibromochloromethane	47.4		µg/L	50.00	ND	94.8	52.1-132		30	
Ethylbenzene	62.4		µg/L	50.00	2.79	119	33.4-133		30	
m,p-Xylene	117		µg/L	100.0	2.96	114	30.5-132		30	
Methylene chloride	57.4		µg/L	50.00	1.99	111	53.8-125		30	
Methyl-t-Butyl Ether	55.0		µg/L	50.00	ND	110	41.1-144		30	
o-Xylene	57.4		µg/L	50.00	1.15	112	38-123		30	
Styrene	47.4		µg/L	50.00	ND	94.9	16.9-131		30	
Tetrachloroethene	60.4		µg/L	50.00	ND	121	43-135		30	
Toluene	69.7		µg/L	50.00	8.11	123	35.2-143		30	
trans-1,2-Dichloroethene	59.9		µg/L	50.00	ND	120	53.7-120		30	
trans-1,3-Dichloropropene	65.0		µg/L	50.00	ND	130	42-148		30	
Trichloroethene	58.1		µg/L	50.00	ND	116	37.1-145		30	
Trichlorofluoromethane	67.4		µg/L	50.00	ND	135	40.5-141		30	
Vinyl Acetate	73.8		µg/L	50.00	ND	148	22.5-184		30	
Vinyl chloride	52.7		µg/L	50.00	ND	105	54.5-143		30	
Surrogate: 1,2-Dichloroethane-d4	*49*		µg/L	*50.00*		*98.4*	*51.7-162*			
Surrogate: 4-Bromofluorobenzene	*46*		µg/L	*50.00*		*91.7*	*57.4-135*			
Surrogate: Dibromofluoromethane	*49*		µg/L	*50.00*		*97.2*	*63.5-139*			
Surrogate: Toluene-d8	*57*		µg/L	*50.00*		*114*	*66.6-143*			

Sample ID: Matrix Spike (B006439-MS2) **Method:** SW-846 8260B **Prepped:** 09/24/2010 08:31
Source: 10I0692-02 **Analyzed:** 09/24/2010 16:09

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	55.8		µg/L	50.00	ND	112	52.5-130		30	
1,1,1-Trichloroethane	57.3		µg/L	50.00	ND	115	46.3-135		30	
1,1,2,2-Tetrachloroethane	67.8		µg/L	50.00	ND	136	56-146		30	
1,1,2-Trichloroethane	55.3		µg/L	50.00	ND	111	60.2-129		30	
1,1-Dichloroethane	61.1		µg/L	50.00	ND	122	59-131		30	
1,1-Dichloroethene	51.8		µg/L	50.00	ND	104	39.1-116		30	
1,2-Dichloroethane	51.0		µg/L	50.00	ND	102	54.7-126		30	
1,2-Dichloropropane	55.6		µg/L	50.00	ND	111	62.9-118		30	
2-Butanone	49.3		µg/L	50.00	5.82	87.0	38.1-138		30	
2-Hexanone	53.3		µg/L	50.00	ND	107	34-149		30	
4-Methyl-2-Pentanone	57.9		µg/L	50.00	ND	116	31.1-175		30	
Acetone	81.1		µg/L	50.00	66.9	28.4	27.9-161		30	
Acrylonitrile	52.9		µg/L	50.00	ND	106	39.4-186		30	
Benzene	56.2		µg/L	50.00	3.26	106	54.8-120		30	
Bromodichloromethane	52.3		µg/L	50.00	ND	105	54.6-122		30	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Volatiles - Quality Control**
Work Order: 10I0805
Project: Bautsch - Gray Mine Site

Batch: B006439

Sample ID: Matrix Spike (B006439-MS2) **Method:** SW-846 8260B **Prepped:** 09/24/2010 08:31
Source: 10I0692-02 **Analyzed:** 09/24/2010 16:09

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Bromoform	37.2		µg/L	50.00	ND	74.5	31-122		30	
Bromomethane	45.3		µg/L	50.00	ND	90.6	10.8-142		30	
Carbon Disulfide	65.5		µg/L	50.00	2.59	126	16-177		30	
Carbon tetrachloride	56.0		µg/L	50.00	ND	112	41.6-132		30	
Chlorobenzene	52.0		µg/L	50.00	ND	104	36.8-129		30	
Chloroethane	78.6		µg/L	50.00	ND	157	42.4-126		30	S
Chloroform	56.0		µg/L	50.00	ND	112	64-123		30	
Chloromethane	49.6		µg/L	50.00	ND	99.2	45.3-143		30	
cis-1,2-Dichloroethene	56.1		µg/L	50.00	ND	112	67-126		30	
cis-1,3-Dichloropropene	57.5		µg/L	50.00	ND	115	49.9-139		30	
Dibromochloromethane	47.4		µg/L	50.00	ND	94.8	52.1-132		30	
Ethylbenzene	60.9		µg/L	50.00	1.62	119	33.4-133		30	
m,p-Xylene	113		µg/L	100.0	1.62	112	30.5-132		30	
Methylene chloride	55.8		µg/L	50.00	2.98	106	53.8-125		30	
Methyl-t-Butyl Ether	53.4		µg/L	50.00	ND	107	41.1-144		30	
o-Xylene	57.3		µg/L	50.00	ND	115	38-123		30	
Styrene	43.5		µg/L	50.00	ND	87.0	16.9-131		30	
Tetrachloroethene	59.4		µg/L	50.00	ND	119	43-135		30	
Toluene	63.9		µg/L	50.00	5.44	117	35.2-143		30	
trans-1,2-Dichloroethene	55.0		µg/L	50.00	ND	110	53.7-120		30	
trans-1,3-Dichloropropene	60.8		µg/L	50.00	ND	122	42-148		30	
Trichloroethene	53.2		µg/L	50.00	ND	106	37.1-145		30	
Trichlorofluoromethane	64.5		µg/L	50.00	ND	129	40.5-141		30	
Vinyl Acetate	72.0		µg/L	50.00	ND	144	22.5-184		30	
Vinyl chloride	47.8		µg/L	50.00	ND	95.6	54.5-143		30	
Surrogate: 1,2-Dichloroethane-d4	*47*		µg/L	*50.00*		*94.9*	*51.7-162*			
Surrogate: 4-Bromofluorobenzene	*46*		µg/L	*50.00*		*92.1*	*57.4-135*			
Surrogate: Dibromofluoromethane	*49*		µg/L	*50.00*		*97.3*	*63.5-139*			
Surrogate: Toluene-d8	*57*		µg/L	*50.00*		*115*	*66.6-143*			

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Metals - Quality Control**
Work Order: 10I0805
Project: Bautsch - Gray Mine Site

Batch: B006444 **Prep:** SW846 3050B

Total Metals by ICP

Sample ID: Blank (B006444-BLK1) **Method:** SW-846 6010B **Prepped:** 09/24/2010 07:55
Source: **Analyzed:** 09/25/2010 00:53

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	ND	0.50	mg/Kg wet							
Barium	ND	0.10	mg/Kg wet							
Cadmium	ND	0.10	mg/Kg wet							
Chromium	ND	0.15	mg/Kg wet							
Lead	ND	0.38	mg/Kg wet							
Selenium	ND	1.5	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							

Sample ID: LCS (B006444-BS1) **Method:** SW-846 6010B **Prepped:** 09/24/2010 07:55
Source: **Analyzed:** 09/25/2010 01:19

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	233	1.0	mg/Kg wet	238.0		97.9	65.1-118		20	
Barium	246	0.20	mg/Kg wet	243.0		101	68.3-118		20	
Cadmium	171	0.20	mg/Kg wet	185.0		92.2	64.9-112		20	
Chromium	108	0.30	mg/Kg wet	104.0		103	65.8-124		20	
Lead	138	0.75	mg/Kg wet	154.0		89.8	62.9-110		20	
Selenium	134	3.0	mg/Kg wet	156.0		86.2	54.9-110		20	
Silver	65.1	1.0	mg/Kg wet	73.20		88.9	56.8-113		20	

Sample ID: Matrix Spike (B006444-MS1) **Method:** SW-846 6010B **Prepped:** 09/24/2010 07:55
Source: 10I0805-01 **Analyzed:** 09/25/2010 01:31

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	125	0.63	mg/Kg dry	125.3	6.06	94.8	75-125		20	
Barium	295	0.13	mg/Kg dry	137.8	154	102	75-125		20	
Cadmium	12.4	0.13	mg/Kg dry	12.53	0.200	97.1	75-125		20	
Chromium	138	0.19	mg/Kg dry	125.3	12.7	100	75-125		20	
Lead	135	0.47	mg/Kg dry	125.3	17.1	94.2	75-125		20	
Selenium	115	1.9	mg/Kg dry	125.3	ND	92.0	75-125		20	
Silver	11.2	0.63	mg/Kg dry	12.53	0.520	85.5	75-125		20	

Sample ID: Matrix Spike Dup (B006444-MSD1) **Method:** SW-846 6010B **Prepped:** 09/24/2010 07:55
Source: 10I0805-01 **Analyzed:** 09/25/2010 01:36

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	125	0.61	mg/Kg dry	121.6	6.06	97.5	75-125	0.0859	20	
Barium	299	0.12	mg/Kg dry	133.8	154	108	75-125	1.36	20	
Cadmium	12.2	0.12	mg/Kg dry	12.16	0.200	98.9	75-125	1.15	20	
Chromium	138	0.18	mg/Kg dry	121.6	12.7	103	75-125	0.271	20	
Lead	134	0.46	mg/Kg dry	121.6	17.1	96.3	75-125	0.664	20	
Selenium	114	1.8	mg/Kg dry	121.6	ND	93.4	75-125	1.50	20	
Silver	11.9	0.61	mg/Kg dry	12.16	0.520	93.6	75-125	5.74	20	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Metals - Quality Control**
Work Order: 10I0805
Project: Bautsch - Gray Mine Site
Batch: B006453 **Prep:** SW-846 7471

Total Mercury by CVAA

Sample ID: Blank (B006453-BLK1) **Method:** SW-846 7471A **Prepped:** 09/24/2010 08:20
Source: **Analyzed:** 09/24/2010 13:56

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Mercury	ND	0.0010	mg/Kg wet							

Sample ID: LCS (B006453-BS1) **Method:** SW-846 7471A **Prepped:** 09/24/2010 08:20
Source: **Analyzed:** 09/24/2010 13:58

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Mercury	6.01	2.0	mg/Kg wet	7.070		85.0	41.9-122			

Sample ID: Matrix Spike (B006453-MS1) **Method:** SW-846 7471A **Prepped:** 09/24/2010 08:20
Source: 10I0805-01 **Analyzed:** 09/24/2010 14:02

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Mercury	0.0993	0.042	mg/Kg dry	0.08353	0.0233	90.9	70-130		20	

Sample ID: Matrix Spike Dup (B006453-MSD1) **Method:** SW-846 7471A **Prepped:** 09/24/2010 08:20
Source: 10I0805-01 **Analyzed:** 09/24/2010 14:03

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Mercury	0.117	0.042	mg/Kg dry	0.08353	0.0233	112	70-130	16.5	20	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Work Order: 10I0805
Project: Bautsch - Gray Mine Site

Wet Chemistry - Quality Control

Batch: B006461

Percent Solids

Sample ID: Duplicate (B006461-DUP1) **Method:** SM2540B Rev 18 **Prepped:** 09/24/2010 13:00
Source: 10I0834-02 **Analyzed:** 09/27/2010 08:00

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Percent Solids	73.4	0.10	wt%		72.1			1.78	20	

Microbac ®

Samples Submitted to:
[X] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664
[ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

Chain of Custody Record

Number 98246

Instructions on back

1010805 Deborah Griffiths 09/23/2010 LATA-Kemron Remediation LLC - Albuquerque, NM Bautsch - Gray Mine Site

Client Name LATA-KEMRON	Project BAUTSCH - GRAY MINE RV	Turnaround Time	Report Type
Address 756 PARK MEADOW	Location GALENA, IL	[X] Routine (7 working days)	[ ] Results Only [X] Level II
City, State, Zip WESTERVILLE, OH 43081	PO #	[ ] RUSH* (notify lab)	[ ] Level III [ ] Level III CLP-like
Contact VERNON GILES	Compliance Monitoring? [ ] Yes(1) [X] No	(needed by)	[ ] Level IV [ ] Level IV CLP-like
Telephone # 404-353-0337	(1)Agency/Program		[ ] EDD

Sampled by (PRINT) JEFF BRYNIARSKI Sampler Signature [signature] Sampler Phone # 708-284-2490

Send Report via [ ] Mail [ ] Telephone [ ] Fax (fax #) [X] e-mail (address) vgiles@kemron.com

* **Matrix Types:** Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** **Preservative Types:** (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types ** ↓	VOCs	SVOCs	RCRA Metals	PCBs					For Lab Use Only
BG-SPROULE-092210	S	X			09/22/10	15:30	5	VARIOUS	X	X	X	X					1010805 01

Possible Hazard Identification [ ] Hazardous [X] Non-Hazardous [ ] Radioactive **Sample Disposition** [ ] Dispose as appropriate [ ] Return [X] Archive

Comments

Sample temperature upon receipt in degrees C =

Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
[signature]	09/22/10 17:00		
Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
Relinquished By (signature)	Date/Time	Received for Lab By (signature)	Date/Time
		[signature]	9/23/10 0945

rev. 11/04/04

Page ____ of ____

September 27, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10I0668

Re: Bautsch - Gray Mine Site

Dear Tom Urmson:

Microbac Laboratories, Inc. - Chicagoland Division received 1 sample(s) on 9/18/2010 10:20:00AM for the analyses presented in the following report as Work Order 10I0668.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

Deborah Griffiths
Senior Project Manager

WORK ORDER SAMPLE SUMMARY

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Project: Bautsch - Gray Mine Site
Lab Order: 10I0668

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10I0668-01	TS1		09/17/2010 16:10	9/18/2010 10:20:00AM

CASE NARRATIVE

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Project: Bautsch - Gray Mine Site
Lab Order: 10I0668

The Matrix Spike and Matrix Spike Duplicate performed on this sample failed the accuracy criteria for Barium with a high bias. The precision criteria were met. This data is indicative of a bias related to sample matrix.

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: TS1
Sample Description:
Matrix: Solid

Work Order/ID: 10I0668-01
Sampled: 09/17/2010 16:10
Received: 09/18/2010 10:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Polychlorinated Biphenyls		Method: **SW-846 8082** Prep Method: **SW846 3550**				Analyst: **jw** Prep Date/Time: **09/21/2010 06:07**	
Aroclor 1016	A	***ND***	39		µg/Kg dry	1	09/21/2010 18:05
Aroclor 1221	A	***ND***	39		µg/Kg dry	1	09/21/2010 18:05
Aroclor 1232	A	***ND***	39		µg/Kg dry	1	09/21/2010 18:05
Aroclor 1242	A	***ND***	39		µg/Kg dry	1	09/21/2010 18:05
Aroclor 1248	A	***ND***	39		µg/Kg dry	1	09/21/2010 18:05
Aroclor 1254	A	***ND***	39		µg/Kg dry	1	09/21/2010 18:05
Aroclor 1260	A	***ND***	39		µg/Kg dry	1	09/21/2010 18:05
Aroclor 1262	A	***ND***	39		µg/Kg dry	1	09/21/2010 18:05
Aroclor 1268	A	***ND***	39		µg/Kg dry	1	09/21/2010 18:05
Total PCB's	A	***ND***	39		µg/Kg dry	1	09/21/2010 18:05
Surr: Decachlorobiphenyl	S	80.00	38-128		%REC	1	09/21/2010 18:05
Surr: Tetrachloro-m-xylene	S	85.00	40-130		%REC	1	09/21/2010 18:05
Semivolatile Organic Compounds		Method: **SW-846 8270C** Prep Method: **SW846 3550A**				Analyst: **cr** Prep Date/Time: **09/23/2010 07:21**	
1,2,4-Trichlorobenzene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
1,2-Dichlorobenzene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
1,2-Diphenyl-hydrazine	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
1,3-Dichlorobenzene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
1,4-Dichlorobenzene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
2,2´-oxybis(1-chloropropane)	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
2,4,5-Trichlorophenol	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
2,4,6-Trichlorophenol	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
2,4-Dichlorophenol	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
2,4-Dimethylphenol	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
2,4-Dinitrophenol	A	***ND***	1900		µg/Kg dry	1	09/23/2010 14:24
2,4-Dinitrotoluene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
2,6-Dichlorophenol	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
2,6-Dinitrotoluene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
2-Chloronaphthalene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
2-Chlorophenol	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
2-Methyl-4,6-dinitrophenol	A	***ND***	1900		µg/Kg dry	1	09/23/2010 14:24
2-Methylnaphthalene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
2-Methylphenol	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
2-Nitroaniline	A	***ND***	1900		µg/Kg dry	1	09/23/2010 14:24
2-Nitrophenol	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
3,3´-Dichlorobenzidine	A	***ND***	1900		µg/Kg dry	1	09/23/2010 14:24
3,4-Benzofluoranthene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
3/4-Methylphenol	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
3-Nitroaniline	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
4,6-Dinitro-2-methylphenol	A	***ND***	1900		µg/Kg dry	1	09/23/2010 14:24
4,6-Dinitro-o-cresol	A	***ND***	1900		µg/Kg dry	1	09/23/2010 14:24

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: TS1
Sample Description:
Matrix: Solid

Work Order/ID: 10I0668-01
Sampled: 09/17/2010 16:10
Received: 09/18/2010 10:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 8270C**					Analyst: **cr**
Semivolatile Organic Compounds		Prep Method: **SW846 3550A**					Prep Date/Time: **09/23/2010 07:21**
4-Bromophenyl phenyl ether	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
4-Chloro-3-methylphenol	A	***ND***	770		µg/Kg dry	1	09/23/2010 14:24
4-Chloroaniline	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
4-Chlorophenyl phenyl ether	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
4-Nitroaniline	A	***ND***	1900		µg/Kg dry	1	09/23/2010 14:24
4-Nitrophenol	A	***ND***	1900		µg/Kg dry	1	09/23/2010 14:24
Acenaphthene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Acenaphthylene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Acetophenone	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Aniline	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Anthracene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Benzidine	A	***ND***	1900		µg/Kg dry	1	09/23/2010 14:24
Benzo[a]anthracene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Benzo[a]pyrene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Benzo[b]fluoranthene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Benzo[g,h,i]perylene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Benzo[k]fluoranthene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Benzoic acid	A	***ND***	1900		µg/Kg dry	1	09/23/2010 14:24
Benzyl alcohol	A	***ND***	770		µg/Kg dry	1	09/23/2010 14:24
beta-Chloronaphthalene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Bis(2-chloroethoxy)methane	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Bis(2-chloroethyl)ether	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Bis(2-ethylhexyl)phthalate	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Butyl benzyl phthalate	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Carbazole	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Chrysene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Di(2-ethylhexyl) phthalate	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Dibenz[a,h]anthracene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Dibenzofuran	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Diethyl phthalate	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Dimethyl phthalate	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Di-n-butyl phthalate	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Di-n-octyl phthalate	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Fluoranthene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Fluorene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Hexachlorobenzene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Hexachlorobutadiene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Hexachlorocyclopentadiene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Hexachloroethane	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Indeno[1,2,3cd]pyrene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Isophorone	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: TS1
Sample Description:
Matrix: Solid

Work Order/ID: 10I0668-01
Sampled: 09/17/2010 16:10
Received: 09/18/2010 10:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Semivolatile Organic Compounds		Method: **SW-846 8270C** Prep Method: **SW846 3550A**				Analyst: **cr** Prep Date/Time: **09/23/2010 07:21**	
m-Dichlorobenzene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Naphthalene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Nitrobenzene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
N-Nitrosodimethylamine	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
N-Nitrosodi-n-propylamine	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
N-Nitrosodiphenylamine	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
o-Chlorophenol	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
p-Chloroaniline	A	***ND***	770		µg/Kg dry	1	09/23/2010 14:24
p-Chloro-m-cresol	A	***ND***	770		µg/Kg dry	1	09/23/2010 14:24
p-Cresol	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Pentachlorophenol	A	***ND***	1900		µg/Kg dry	1	09/23/2010 14:24
Phenanthrene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Phenol	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Pyrene	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Pyridine	A	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Total Cresol	M	***ND***	390		µg/Kg dry	1	09/23/2010 14:24
Surr: 2,4,6-Tribromophenol	S	75.30	13.9-145		%REC	1	09/23/2010 14:24
Surr: 2-Fluorobiphenyl	S	75.20	28.1-110		%REC	1	09/23/2010 14:24
Surr: 2-Fluorophenol	S	60.40	24.5-110		%REC	1	09/23/2010 14:24
Surr: Nitrobenzene-d5	S	68.60	33.6-110		%REC	1	09/23/2010 14:24
Surr: Phenol-d5	S	71.30	29.6-110		%REC	1	09/23/2010 14:24
Surr: Terphenyl-d14	S	80.80	35.8-121		%REC	1	09/23/2010 14:24
Volatile Organic Compounds, 5035 prep, SB preserve		Method: **SW-846 8260B**				Analyst: **JLN** Prep Date/Time: **09/24/2010 08:31**	
1,1,1,2-Tetrachloroethane	A	***ND***	5.2		µg/Kg dry	1	09/24/2010 13:10
1,1,1-Trichloroethane	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
1,1,2,2-Tetrachloroethane	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
1,1,2-Trichloroethane	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
1,1-Dichloroethane	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
1,1-Dichloroethene	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
1,2-Dichloroethane	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
1,2-Dichloropropane	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
2-Butanone	A	***8.3***	5.2		µg/Kg dry	1	09/24/2010 13:10
2-Hexanone	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
4-Methyl-2-Pentanone	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
Acetone	A	***91***	26		µg/Kg dry	1	09/24/2010 13:10
Acrolein	A	***ND***	52		µg/Kg dry	1	09/24/2010 13:10
Acrylonitrile	A	***ND***	52		µg/Kg dry	1	09/24/2010 13:10
Benzene	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
Bromodichloromethane	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
Bromoform	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: TS1
Sample Description:
Matrix: Solid

Work Order/ID: 10I0668-01
Sampled: 09/17/2010 16:10
Received: 09/18/2010 10:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 8260B**					Analyst: **JLN**
Volatile Organic Compounds, 5035 prep, SB preserve							Prep Date/Time: **09/24/2010 08:31**
Bromomethane	A	***ND***	5.2		µg/Kg dry	1	09/24/2010 13:10
Carbon Disulfide	A	***ND***	5.2		µg/Kg dry	1	09/24/2010 13:10
Carbon tetrachloride	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
Chlorobenzene	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
Chloroethane	A	***ND***	5.2		µg/Kg dry	1	09/24/2010 13:10
Chloroform	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
Chloromethane	A	***ND***	5.2		µg/Kg dry	1	09/24/2010 13:10
cis-1,2-Dichloroethene	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
cis-1,3-Dichloropropene	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
Dibromochloromethane	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
Ethylbenzene	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
m,p-Xylene	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
Methylene chloride	A	***ND***	10		µg/Kg dry	1	09/24/2010 13:10
Methyl-t-Butyl Ether	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
o-Xylene	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
Styrene	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
Tetrachloroethene	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
Toluene	A	***2.8***	2.6		µg/Kg dry	1	09/24/2010 13:10
trans-1,2-Dichloroethene	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
trans-1,3-Dichloropropene	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
Trichloroethene	A	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
Trichlorofluoromethane	A	***ND***	5.2		µg/Kg dry	1	09/24/2010 13:10
Vinyl Acetate	A	***ND***	5.2		µg/Kg dry	1	09/24/2010 13:10
Vinyl chloride	A	***ND***	5.2		µg/Kg dry	1	09/24/2010 13:10
Total 1,2-Dichloroethene	M	***ND***	5.2		µg/Kg dry	1	09/24/2010 13:10
Total Xylenes	M	***ND***	2.6		µg/Kg dry	1	09/24/2010 13:10
Surr: 1,2-Dichloroethane-d4	S	107.00	51.7-162		%REC	1	09/24/2010 13:10
Surr: 4-Bromofluorobenzene	S	93.10	57.4-135		%REC	1	09/24/2010 13:10
Surr: Dibromofluoromethane	S	101.00	63.5-139		%REC	1	09/24/2010 13:10
Surr: Toluene-d8	S	110.00	66.6-143		%REC	1	09/24/2010 13:10
		Method: **SW-846 6010B**					Analyst: **SA**
Total Metals by ICP		Prep Method: **SW846 3050B**					Prep Date/Time: **09/20/2010 08:44**
Arsenic	A	***3.0***	0.57		mg/Kg dry	1	09/22/2010 20:40
Barium	A	***6.7***	0.11		mg/Kg dry	1	09/22/2010 20:40
Cadmium	A	***0.22***	0.11		mg/Kg dry	1	09/22/2010 20:40
Chromium	A	***2.3***	0.17		mg/Kg dry	1	09/22/2010 20:40
Lead	A	***22***	0.43		mg/Kg dry	1	09/22/2010 20:40
Selenium	A	***5.9***	1.7		mg/Kg dry	1	09/22/2010 20:40
Silver	A	***ND***	0.57		mg/Kg dry	1	09/22/2010 20:40
		Method: **SW-846 7471A**					Analyst: **SA**
Total Mercury by CVAA		Prep Method: **SW-846 7471**					Prep Date/Time: **09/20/2010 08:46**

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: TS1
Sample Description:
Matrix: Solid

Work Order/ID: 10I0668-01
Sampled: 09/17/2010 16:10
Received: 09/18/2010 10:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Mercury by CVAA		Method: **SW-846 7471A** Prep Method: **SW-846 7471**				Analyst: **SA** Prep Date/Time: **09/20/2010 08:46**	
Mercury	A	***ND***	0.044		mg/Kg dry	1	09/21/2010 13:29
Percent Solids		Method: **SM2540B Rev 18**				Analyst: **cstas** Prep Date/Time: **09/20/2010 12:09**	
Percent Solids	A	***86***	0.10		wt%	1	09/21/2010 6:10

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)
Indiana DEM approved support laboratory for solid waste and wastewater analyses
Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)
Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)
Kentucky DEP for the chemical analysis of drinking water (lab #90147)
Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)
*New York SDH for the chemical analysis of air and emissions (lab #11909)
North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)
Tennessee DEC for the chemical analysis of drinking water (lab #04017)
Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

COOLER INSPECTION

Date: Monday, September 27, 2010

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date/Time Received: 09/18/2010 10:20

Work Order Number: 10I0668

Received by: Dan Petreikis

Checklist completed by: 9/18/2010 10:25:00AM | Dan Petreikis

Reviewed by: 9/21/2010 | DDG

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 4.00°C

After-Hour Arrival?	Yes	☐	No	☑		
Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present	☐
Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	Not Present	☑
Custody seals intact on sample containers?	Yes	☐	No	☐	Not Present	☑
COC present?	Yes	☑	No	☐		
COC included sufficient client identification?	Yes	☑	No	☐		
COC included sufficient sample collector information?	Yes	☑	No	☐		
COC included a sample description?	Yes	☑	No	☐		
COC agrees with sample labels?	Yes	☑	No	☐		
COC identified the appropriate matrix?	Yes	☑	No	☐		
COC included date of collection?	Yes	☑	No	☐		
COC included time of collection?	Yes	☑	No	☐		
COC identified the appropriate number of containers?	Yes	☑	No	☐		
Samples in proper container/bottle?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
If the samples are preserved, are the preservatives identified?	Yes	☑	No	☐		
COC included the requested analyses?	Yes	☑	No	☐		

If No, adjusted by? _____

COC signed when relinquished and received?	Yes	☑	No	☐		
Samples received on ice?	Yes	☑	No	☐		
Samples properly preserved?	Yes	☑	No	☐		
Voa vials for aqueous samples have zero headspace?	Yes	☐	No	☐	No VOA vials submitted	☑

Cooler Comments:

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10I0668-01	TS1	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GC Semivolatiles - Quality Control**
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

Batch: B006277 **Prep:** SW846 3550

Polychlorinated Biphenyls

Sample ID: Blank (B006277-BLK1) **Method:** SW-846 8082 **Prepped:** 09/21/2010 06:07
Source: **Analyzed:** 09/21/2010 10:30

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	ND	33	µg/Kg wet							
Aroclor 1221	ND	33	µg/Kg wet							
Aroclor 1232	ND	33	µg/Kg wet							
Aroclor 1242	ND	33	µg/Kg wet							
Aroclor 1248	ND	33	µg/Kg wet							
Aroclor 1254	ND	33	µg/Kg wet							
Aroclor 1260	ND	33	µg/Kg wet							
Aroclor 1262	ND	33	µg/Kg wet							
Aroclor 1268	ND	33	µg/Kg wet							
Total PCB's	ND	33	µg/Kg wet							
Surrogate: Decachlorobiphenyl	*7.3*		µg/Kg wet	*6.667*		*110*	*38-128*			
Surrogate: Tetrachloro-m-xylene	*6.0*		µg/Kg wet	*6.667*		*90.0*	*40-130*			

Sample ID: LCS (B006277-BS1) **Method:** SW-846 8082 **Prepped:** 09/21/2010 06:07
Source: **Analyzed:** 09/21/2010 10:55

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	178	33	µg/Kg wet	166.7		107	30.2-145		30	
Aroclor 1260	177	33	µg/Kg wet	166.7		106	40.1-138		30	
Surrogate: Decachlorobiphenyl	*7.3*		µg/Kg wet	*6.667*		*110*	*38-128*			
Surrogate: Tetrachloro-m-xylene	*6.3*		µg/Kg wet	*6.667*		*95.0*	*40-130*			

Sample ID: Matrix Spike (B006277-MS1) **Method:** SW-846 8082 **Prepped:** 09/21/2010 06:07
Source: 10I0571-08 **Analyzed:** 09/21/2010 13:01

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	542	180	µg/Kg dry	897.7	ND	60.4	27.2-130		40	
Aroclor 1260	451	180	µg/Kg dry	897.7	ND	50.3	23.8-131		40	
Surrogate: Decachlorobiphenyl	*20*		µg/Kg dry	*35.91*		*55.0*	*38-128*			
Surrogate: Tetrachloro-m-xylene	*14*		µg/Kg dry	*35.91*		*40.0*	*40-130*			

Sample ID: Matrix Spike Dup (B006277-MSD1) **Method:** SW-846 8082 **Prepped:** 09/21/2010 06:07
Source: 10I0571-08 **Analyzed:** 09/21/2010 13:26

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	548	180	µg/Kg dry	897.4	ND	61.1	27.2-130	1.09	40	
Aroclor 1260	497	180	µg/Kg dry	897.4	ND	55.4	23.8-131	9.58	40	
Surrogate: Decachlorobiphenyl	*20*		µg/Kg dry	*35.90*		*55.0*	*38-128*			
Surrogate: Tetrachloro-m-xylene	*14*		µg/Kg dry	*35.90*		*40.0*	*40-130*			S

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

GCMS Semivolatiles - Quality Control

Batch: B006388 **Prep:** SW846 3550A

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Semivolatiles - Quality Control**
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Semivolatile Organic Compounds

Sample ID: Blank (B006388-BLK1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: **Analyzed:** 09/23/2010 10:25

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene	ND	330	µg/Kg wet							
1,2-Dichlorobenzene	ND	330	µg/Kg wet							
1,2-Diphenyl-hydrazine	ND	330	µg/Kg wet							
1,3-Dichlorobenzene	ND	330	µg/Kg wet							
1,4-Dichlorobenzene	ND	330	µg/Kg wet							
2,2´-oxybis(1-chloropropane)	ND	330	µg/Kg wet							
2,4,5-Trichlorophenol	ND	330	µg/Kg wet							
2,4,6-Trichlorophenol	ND	330	µg/Kg wet							
2,4-Dichlorophenol	ND	330	µg/Kg wet							
2,4-Dimethylphenol	ND	330	µg/Kg wet							
2,4-Dinitrophenol	ND	1600	µg/Kg wet							
2,4-Dinitrotoluene	ND	330	µg/Kg wet							
2,6-Dichlorophenol	ND	330	µg/Kg wet							
2,6-Dinitrotoluene	ND	330	µg/Kg wet							
2-Chloronaphthalene	ND	330	µg/Kg wet							
2-Chlorophenol	ND	330	µg/Kg wet							
2-Methyl-4,6-dinitrophenol	ND	1600	µg/Kg wet							
2-Methylnaphthalene	ND	330	µg/Kg wet							
2-Methylphenol	ND	330	µg/Kg wet							
2-Nitroaniline	ND	1600	µg/Kg wet							
2-Nitrophenol	ND	330	µg/Kg wet							
3,3´-Dichlorobenzidine	ND	1600	µg/Kg wet							
3,4-Benzofluoranthene	ND	330	µg/Kg wet							
3/4-Methylphenol	ND	330	µg/Kg wet							
3-Nitroaniline	ND	330	µg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	1600	µg/Kg wet							
4,6-Dinitro-o-cresol	ND	1600	µg/Kg wet							
4-Bromophenyl phenyl ether	ND	330	µg/Kg wet							
4-Chloro-3-methylphenol	ND	660	µg/Kg wet							
4-Chloroaniline	ND	330	µg/Kg wet							
4-Chlorophenyl phenyl ether	ND	330	µg/Kg wet							
4-Nitroaniline	ND	1600	µg/Kg wet							
4-Nitrophenol	ND	1600	µg/Kg wet							
Acenaphthene	ND	330	µg/Kg wet							
Acenaphthylene	ND	330	µg/Kg wet							
Acetophenone	ND	330	µg/Kg wet							
Aniline	ND	330	µg/Kg wet							
Anthracene	ND	330	µg/Kg wet							
Benzidine	ND	1600	µg/Kg wet							

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Semivolatiles - Quality Control**
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Sample ID: Blank (B006388-BLK1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: **Analyzed:** 09/23/2010 10:25

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Benzo[a]anthracene	ND	330	µg/Kg wet							
Benzo[a]pyrene	ND	330	µg/Kg wet							
Benzo[b]fluoranthene	ND	330	µg/Kg wet							
Benzo[g,h,i]perylene	ND	330	µg/Kg wet							
Benzo[k]fluoranthene	ND	330	µg/Kg wet							
Benzoic acid	ND	1600	µg/Kg wet							
Benzyl alcohol	ND	660	µg/Kg wet							
beta-Chloronaphthalene	ND	330	µg/Kg wet							
Bis(2-chloroethoxy)methane	ND	330	µg/Kg wet							
Bis(2-chloroethyl)ether	ND	330	µg/Kg wet							
Bis(2-ethylhexyl)phthalate	ND	330	µg/Kg wet							
Butyl benzyl phthalate	ND	330	µg/Kg wet							
Carbazole	ND	330	µg/Kg wet							
Chrysene	ND	330	µg/Kg wet							
Di(2-ethylhexyl) phthalate	ND	330	µg/Kg wet							
Dibenz[a,h]anthracene	ND	330	µg/Kg wet							
Dibenzofuran	ND	330	µg/Kg wet							
Diethyl phthalate	ND	330	µg/Kg wet							
Dimethyl phthalate	ND	330	µg/Kg wet							
Di-n-butyl phthalate	ND	330	µg/Kg wet							
Di-n-octyl phthalate	ND	330	µg/Kg wet							
Fluoranthene	ND	330	µg/Kg wet							
Fluorene	ND	330	µg/Kg wet							
Hexachlorobenzene	ND	330	µg/Kg wet							
Hexachlorobutadiene	ND	330	µg/Kg wet							
Hexachlorocyclopentadiene	ND	330	µg/Kg wet							
Hexachloroethane	ND	330	µg/Kg wet							
Indeno[1,2,3cd]pyrene	ND	330	µg/Kg wet							
Isophorone	ND	330	µg/Kg wet							
m-Dichlorobenzene	ND	330	µg/Kg wet							
Naphthalene	ND	330	µg/Kg wet							
Nitrobenzene	ND	330	µg/Kg wet							
N-Nitrosodimethylamine	ND	330	µg/Kg wet							
N-Nitrosodi-n-propylamine	ND	330	µg/Kg wet							
N-Nitrosodiphenylamine	ND	330	µg/Kg wet							
o-Chlorophenol	ND	330	µg/Kg wet							
p-Chloroaniline	ND	660	µg/Kg wet							
p-Chloro-m-cresol	ND	660	µg/Kg wet							
p-Cresol	ND	330	µg/Kg wet							
Pentachlorophenol	ND	1600	µg/Kg wet							
Phenanthrene	ND	330	µg/Kg wet							

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Semivolatiles - Quality Control**
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Sample ID: Blank (B006388-BLK1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: **Analyzed:** 09/23/2010 10:25

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Phenol	ND	330	µg/Kg wet							
Pyrene	ND	330	µg/Kg wet							
Pyridine	ND	330	µg/Kg wet							
Total Cresol	ND	330	µg/Kg wet							
Surrogate: 2,4,6-Tribromophenol	*88*		ug/mL	*100.0*		*87.9*	*13.9-145*			
Surrogate: 2-Fluorobiphenyl	*40*		ug/mL	*50.00*		*80.5*	*28.1-110*			
Surrogate: 2-Fluorophenol	*82*		ug/mL	*100.0*		*81.8*	*24.5-110*			
Surrogate: Nitrobenzene-d5	*42*		ug/mL	*50.00*		*83.0*	*33.6-110*			
Surrogate: Phenol-d5	*84*		ug/mL	*100.0*		*83.6*	*29.6-110*			
Surrogate: Terphenyl-d14	*50*		ug/mL	*50.00*		*100*	*35.8-121*			

Sample ID: Blank (B006388-BLK2) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: **Analyzed:** 09/23/2010 10:42

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Acenaphthene	ND	330	µg/Kg wet							
Acenaphthylene	ND	330	µg/Kg wet							
Anthracene	ND	330	µg/Kg wet							
Benzo[a]anthracene	ND	330	µg/Kg wet							
Benzo[a]pyrene	ND	330	µg/Kg wet							
Benzo[b]fluoranthene	ND	330	µg/Kg wet							
Benzo[g,h,i]perylene	ND	330	µg/Kg wet							
Benzo[k]fluoranthene	ND	330	µg/Kg wet							
Chrysene	ND	330	µg/Kg wet							
Dibenz[a,h]anthracene	ND	330	µg/Kg wet							
Fluoranthene	ND	330	µg/Kg wet							
Fluorene	ND	330	µg/Kg wet							
Indeno[1,2,3cd]pyrene	ND	330	µg/Kg wet							
Naphthalene	ND	330	µg/Kg wet							
Phenanthrene	ND	330	µg/Kg wet							
Pyrene	ND	330	µg/Kg wet							
Surrogate: 2,4,6-Tribromophenol	*82*		ug/mL	*100.0*		*82.4*	*13.9-145*			
Surrogate: 2-Fluorobiphenyl	*41*		ug/mL	*50.00*		*81.1*	*28.1-110*			
Surrogate: 2-Fluorophenol	*79*		ug/mL	*100.0*		*79.1*	*24.5-110*			
Surrogate: Nitrobenzene-d5	*39*		ug/mL	*50.00*		*77.7*	*33.6-110*			
Surrogate: Phenol-d5	*82*		ug/mL	*100.0*		*81.6*	*29.6-110*			
Surrogate: Terphenyl-d14	*43*		ug/mL	*50.00*		*86.2*	*35.8-121*			

Sample ID: LCS (B006388-BS1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: **Analyzed:** 09/23/2010 10:49

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene	2210	330	µg/Kg wet	3333		66.4	35.9-110		30	
1,4-Dichlorobenzene	1980	330	µg/Kg wet	3333		59.4	20-124		30	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Semivolatiles - Quality Control**
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Sample ID: LCS (B006388-BS1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: **Analyzed:** 09/23/2010 10:49

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
2,2´-oxybis(1-chloropropane)	2160	330	µg/Kg wet	3333		64.7	10-113		30	
2,4-Dinitrotoluene	2110	330	µg/Kg wet	3333		63.2	42.6-110		30	
2-Chloronaphthalene	2300	330	µg/Kg wet	3333		69.0	19-111		30	
2-Chlorophenol	2230	330	µg/Kg wet	3333		67.0	36.1-110		30	
3,3´-Dichlorobenzidine	2720	1600	µg/Kg wet	3333		81.7	50-150		30	
4-Chloro-3-methylphenol	2420	660	µg/Kg wet	3333		72.5	40.6-119		30	
4-Chlorophenyl phenyl ether	2540	330	µg/Kg wet	3333		76.2	24-113		30	
4-Nitrophenol	2250	1600	µg/Kg wet	3333		67.5	39.1-110		30	
Acenaphthene	2230	330	µg/Kg wet	3333		66.8	42.1-110		30	
Benzo[g,h,i]perylene	2520	330	µg/Kg wet	3333		75.5	50-150		30	
Benzo[k]fluoranthene	2370	330	µg/Kg wet	3333		71.1	28-144		30	
Bis(2-ethylhexyl)phthalate	2430	330	µg/Kg wet	3333		73.0	22-128		30	
Dibenz[a,h]anthracene	2450	330	µg/Kg wet	3333		73.4	26-175		30	
Diethyl phthalate	2530	330	µg/Kg wet	3333		76.0	16-119		30	
Dimethyl phthalate	2370	330	µg/Kg wet	3333		71.0	15-130		30	
Indeno[1,2,3cd]pyrene	2700	330	µg/Kg wet	3333		81.1	50-150		30	
N-Nitrosodi-n-propylamine	2090	330	µg/Kg wet	3333		62.7	38.1-110		30	
Pentachlorophenol	1750	1600	µg/Kg wet	3333		52.6	22.1-110		30	
Phenol	1790	330	µg/Kg wet	3333		53.7	38.9-110		30	
Pyrene	2730	330	µg/Kg wet	3333		82.0	44.3-116		30	
Surrogate: 2,4,6-Tribromophenol	*76*		ug/mL	*100.0*		*76.5*	*13.9-145*			
Surrogate: 2-Fluorobiphenyl	*39*		ug/mL	*50.00*		*77.7*	*28.1-110*			
Surrogate: 2-Fluorophenol	*74*		ug/mL	*100.0*		*74.3*	*24.5-110*			
Surrogate: Nitrobenzene-d5	*36*		ug/mL	*50.00*		*71.9*	*33.6-110*			
Surrogate: Phenol-d5	*68*		ug/mL	*100.0*		*68.1*	*29.6-110*			
Surrogate: Terphenyl-d14	*47*		ug/mL	*50.00*		*93.4*	*35.8-121*			

Sample ID: Matrix Spike (B006388-MS1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: 10I0753-01 **Analyzed:** 09/23/2010 14:48

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene	2920	380	µg/Kg dry	3807	ND	76.6	33.9-110		30	
1,4-Dichlorobenzene	2750	380	µg/Kg dry	3807	ND	72.3	10-134		30	
2,2´-oxybis(1-chloropropane)	2620	380	µg/Kg dry	3807	ND	68.8	10-123		30	
2,4-Dinitrotoluene	3160	380	µg/Kg dry	3807	ND	83.1	49.9-110		30	
2-Chloronaphthalene	2780	380	µg/Kg dry	3807	ND	72.9	10-121		30	
2-Chlorophenol	2880	380	µg/Kg dry	3807	ND	75.7	35.7-110		30	
3,3´-Dichlorobenzidine	3080	1800	µg/Kg dry	3807	ND	80.8	40-160		30	
4-Chloro-3-methylphenol	3300	750	µg/Kg dry	3807	ND	86.6	41.5-121		30	
4-Chlorophenyl phenyl ether	3130	380	µg/Kg dry	3807	ND	82.2	14-123		30	
4-Nitrophenol	2760	1800	µg/Kg dry	3807	ND	72.5	32.1-121		30	
Acenaphthene	3000	380	µg/Kg dry	3807	ND	78.8	39.8-110		30	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Semivolatiles - Quality Control**
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Sample ID: Matrix Spike (B006388-MS1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: 10I0753-01 **Analyzed:** 09/23/2010 14:48

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Benzo[g,h,i]perylene	2400	380	µg/Kg dry	3807	ND	63.1	40-160		30	
Benzo[k]fluoranthene	2110	380	µg/Kg dry	3807	ND	55.5	18-154		30	
Bis(2-ethylhexyl)phthalate	3540	380	µg/Kg dry	3807	ND	92.9	12-138		30	
Dibenz[a,h]anthracene	2540	380	µg/Kg dry	3807	ND	66.7	16-185		30	
Diethyl phthalate	3160	380	µg/Kg dry	3807	ND	83.0	10-129		30	
Dimethyl phthalate	2940	380	µg/Kg dry	3807	ND	77.4	10-140		30	
Indeno[1,2,3cd]pyrene	2620	380	µg/Kg dry	3807	ND	68.9	40-160		30	
N-Nitrosodi-n-propylamine	3110	380	µg/Kg dry	3807	ND	81.6	37.4-110		30	
Pentachlorophenol	2490	1800	µg/Kg dry	3807	ND	65.5	10.6-110		30	
Phenol	2680	380	µg/Kg dry	3807	ND	70.4	43.3-110		30	
Pyrene	2950	380	µg/Kg dry	3807	ND	77.6	37.6-113		30	
Surrogate: 2,4,6-Tribromophenol	*96*		ug/mL	*100.0*		*96.0*	*13.9-145*			
Surrogate: 2-Fluorobiphenyl	*43*		ug/mL	*50.00*		*86.5*	*28.1-110*			
Surrogate: 2-Fluorophenol	*86*		ug/mL	*100.0*		*85.7*	*24.5-110*			
Surrogate: Nitrobenzene-d5	*40*		ug/mL	*50.00*		*79.9*	*33.6-110*			
Surrogate: Phenol-d5	*82*		ug/mL	*100.0*		*82.1*	*29.6-110*			
Surrogate: Terphenyl-d14	*48*		ug/mL	*50.00*		*96.0*	*35.8-121*			

Sample ID: Matrix Spike Dup (B006388-MSD1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: 10I0753-01 **Analyzed:** 09/23/2010 15:13

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene	2560	380	µg/Kg dry	3807	ND	67.2	33.9-110	13.0	30	
1,4-Dichlorobenzene	2150	380	µg/Kg dry	3807	ND	56.4	10-134	24.7	30	
2,2´-oxybis(1-chloropropane)	2350	380	µg/Kg dry	3807	ND	61.7	10-123	10.8	30	
2,4-Dinitrotoluene	2770	380	µg/Kg dry	3807	ND	72.8	49.9-110	13.2	30	
2-Chloronaphthalene	2650	380	µg/Kg dry	3807	ND	69.7	10-121	4.53	30	
2-Chlorophenol	2600	380	µg/Kg dry	3807	ND	68.3	35.7-110	10.2	30	
3,3´-Dichlorobenzidine	3000	1800	µg/Kg dry	3807	ND	78.8	40-160	2.52	30	
4-Chloro-3-methylphenol	2940	750	µg/Kg dry	3807	ND	77.3	41.5-121	11.5	30	
4-Chlorophenyl phenyl ether	3110	380	µg/Kg dry	3807	ND	81.6	14-123	0.781	30	
4-Nitrophenol	2990	1800	µg/Kg dry	3807	ND	78.7	32.1-121	8.11	30	
Acenaphthene	2670	380	µg/Kg dry	3807	ND	70.2	39.8-110	11.6	30	
Benzo[g,h,i]perylene	2320	380	µg/Kg dry	3807	ND	60.9	40-160	3.50	30	
Benzo[k]fluoranthene	2130	380	µg/Kg dry	3807	ND	55.9	18-154	0.808	30	
Bis(2-ethylhexyl)phthalate	3260	380	µg/Kg dry	3807	ND	85.6	12-138	8.13	30	
Dibenz[a,h]anthracene	2490	380	µg/Kg dry	3807	ND	65.3	16-185	2.17	30	
Diethyl phthalate	3120	380	µg/Kg dry	3807	ND	81.9	10-129	1.26	30	
Dimethyl phthalate	2910	380	µg/Kg dry	3807	ND	76.3	10-140	1.34	30	
Indeno[1,2,3cd]pyrene	2650	380	µg/Kg dry	3807	ND	69.6	40-160	0.895	30	
N-Nitrosodi-n-propylamine	2390	380	µg/Kg dry	3807	ND	62.7	37.4-110	26.2	30	
Pentachlorophenol	2520	1800	µg/Kg dry	3807	ND	66.2	10.6-110	1.03	30	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

GCMS Semivolatiles - Quality Control

Batch: B006388 **Prep:** SW846 3550A

Sample ID: Matrix Spike Dup (B006388-MSD1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: 10I0753-01 **Analyzed:** 09/23/2010 15:13

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Phenol	2160	380	µg/Kg dry	3807	ND	56.6	43.3-110	21.7	30	
Pyrene	3030	380	µg/Kg dry	3807	ND	79.6	37.6-113	2.61	30	
Surrogate: 2,4,6-Tribromophenol	*90*		ug/mL	*100.0*		*90.0*	*13.9-145*			
Surrogate: 2-Fluorobiphenyl	*39*		ug/mL	*50.00*		*77.7*	*28.1-110*			
Surrogate: 2-Fluorophenol	*70*		ug/mL	*100.0*		*69.8*	*24.5-110*			
Surrogate: Nitrobenzene-d5	*36*		ug/mL	*50.00*		*72.9*	*33.6-110*			
Surrogate: Phenol-d5	*69*		ug/mL	*100.0*		*69.3*	*29.6-110*			
Surrogate: Terphenyl-d14	*45*		ug/mL	*50.00*		*89.4*	*35.8-121*			

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

GCMS Volatiles - Quality Control

Batch: B006439

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Volatiles - Quality Control**
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

Batch: B006439

Volatile Organic Compounds, 5035 prep, SB preserve

Sample ID: Blank (B006439-BLK1) **Method:** SW-846 8260B **Prepped:** 09/24/2010 08:31
Source: **Analyzed:** 09/24/2010 10:12

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	ND	10	µg/Kg wet							
1,1,1-Trichloroethane	ND	5.0	µg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg wet							
1,1,2-Trichloroethane	ND	5.0	µg/Kg wet							
1,1-Dichloroethane	ND	5.0	µg/Kg wet							
1,1-Dichloroethene	ND	5.0	µg/Kg wet							
1,2-Dichloroethane	ND	5.0	µg/Kg wet							
1,2-Dichloropropane	ND	5.0	µg/Kg wet							
2-Butanone	ND	10	µg/Kg wet							
2-Hexanone	ND	5.0	µg/Kg wet							
4-Methyl-2-Pentanone	ND	5.0	µg/Kg wet							
Acetone	ND	50	µg/Kg wet							
Acrolein	ND	100	µg/Kg wet							
Acrylonitrile	ND	100	µg/Kg wet							
Benzene	ND	5.0	µg/Kg wet							
Bromodichloromethane	ND	5.0	µg/Kg wet							
Bromoform	ND	5.0	µg/Kg wet							
Bromomethane	ND	10	µg/Kg wet							
Carbon Disulfide	ND	10	µg/Kg wet							
Carbon tetrachloride	ND	5.0	µg/Kg wet							
Chlorobenzene	ND	5.0	µg/Kg wet							
Chloroethane	ND	10	µg/Kg wet							
Chloroform	ND	5.0	µg/Kg wet							
Chloromethane	ND	10	µg/Kg wet							
cis-1,2-Dichloroethene	ND	5.0	µg/Kg wet							
cis-1,3-Dichloropropene	ND	5.0	µg/Kg wet							
Dibromochloromethane	ND	5.0	µg/Kg wet							
Ethylbenzene	ND	5.0	µg/Kg wet							
m,p-Xylene	ND	5.0	µg/Kg wet							
Methylene chloride	ND	20	µg/Kg wet							
Methyl-t-Butyl Ether	ND	5.0	µg/Kg wet							
o-Xylene	ND	5.0	µg/Kg wet							
Styrene	ND	5.0	µg/Kg wet							
Tetrachloroethene	ND	5.0	µg/Kg wet							
Toluene	ND	5.0	µg/Kg wet							
trans-1,2-Dichloroethene	ND	5.0	µg/Kg wet							
trans-1,3-Dichloropropene	ND	5.0	µg/Kg wet							
Trichloroethene	ND	5.0	µg/Kg wet							
Trichlorofluoromethane	ND	10	µg/Kg wet							

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Volatiles - Quality Control**
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

Batch: B006439

Sample ID: Blank (B006439-BLK1) **Method:** SW-846 8260B **Prepped:** 09/24/2010 08:31
Source: **Analyzed:** 09/24/2010 10:12

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Vinyl Acetate	ND	10	µg/Kg wet							
Vinyl chloride	ND	10	µg/Kg wet							
Total 1,2-Dichloroethene	ND	10	µg/Kg wet							
Total Xylenes	ND	5.0	µg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*52*		µg/L	*50.00*		*105*	*51.7-162*			
Surrogate: 4-Bromofluorobenzene	*49*		µg/L	*50.00*		*98.9*	*57.4-135*			
Surrogate: Dibromofluoromethane	*50*		µg/L	*50.00*		*101*	*63.5-139*			
Surrogate: Toluene-d8	*52*		µg/L	*50.00*		*104*	*66.6-143*			

Sample ID: LCS (B006439-BS1) **Method:** SW-846 8260B **Prepped:** 09/24/2010 08:31
Source: **Analyzed:** 09/24/2010 10:42

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	52.8		µg/L	50.00		106	73.2-127		30	
1,1,1-Trichloroethane	52.6		µg/L	50.00		105	68.4-134		30	
1,1,2,2-Tetrachloroethane	48.5		µg/L	50.00		97.0	67.8-115		30	
1,1,2-Trichloroethane	50.7		µg/L	50.00		101	74-114		30	
1,1-Dichloroethane	53.4		µg/L	50.00		107	70.3-121		30	
1,1-Dichloroethene	44.5		µg/L	50.00		89.1	54-119		30	
1,2-Dichloroethane	51.9		µg/L	50.00		104	65.5-129		30	
1,2-Dichloropropane	52.8		µg/L	50.00		106	68.6-124		30	
2-Butanone	46.4		µg/L	50.00		92.9	55.8-114		30	
2-Hexanone	44.6		µg/L	50.00		89.3	49.9-110			
4-Methyl-2-Pentanone	48.1		µg/L	50.00		96.2	57-114		30	
Acetone	50.6		µg/L	50.00		101	37.2-135		30	
Acrylonitrile	54.5		µg/L	50.00		109	45.3-148		30	
Benzene	51.4		µg/L	50.00		103	71.8-123		30	
Bromodichloromethane	52.7		µg/L	50.00		105	69.4-132		30	
Bromoform	40.5		µg/L	50.00		80.9	54.7-123		30	
Bromomethane	27.7		µg/L	50.00		55.4	10-143		30	
Carbon Disulfide	59.8		µg/L	50.00		120	80-159		30	
Carbon tetrachloride	53.6		µg/L	50.00		107	68.6-138		30	
Chlorobenzene	53.4		µg/L	50.00		107	80.1-122		30	
Chloroethane	59.6		µg/L	50.00		119	53.6-121		30	
Chloroform	53.0		µg/L	50.00		106	71.9-127		30	
Chloromethane	42.6		µg/L	50.00		85.3	28.3-124		30	
cis-1,2-Dichloroethene	53.8		µg/L	50.00		108	81.5-132		30	
cis-1,3-Dichloropropene	53.8		µg/L	50.00		108	74.9-117		30	
Dibromochloromethane	45.6		µg/L	50.00		91.2	65.1-132		30	
Ethylbenzene	55.0		µg/L	50.00		110	77.1-124		30	
m,p-Xylene	109		µg/L	100.0		109	77.4-126		30	
Methylene chloride	50.7		µg/L	50.00		101	69.2-138		30	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Volatiles - Quality Control**
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

Batch: B006439

Sample ID: LCS (B006439-BS1) **Method:** SW-846 8260B **Prepped:** 09/24/2010 08:31
Source: **Analyzed:** 09/24/2010 10:42

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Methyl-t-Butyl Ether	51.1		µg/L	50.00		102	77.8-120		30	
o-Xylene	53.0		µg/L	50.00		106	74.9-124		30	
Styrene	54.7		µg/L	50.00		109	77.7-117		30	
Tetrachloroethene	57.2		µg/L	50.00		114	81.9-127		30	
Toluene	53.8		µg/L	50.00		108	76.7-122		30	
trans-1,2-Dichloroethene	51.1		µg/L	50.00		102	67.6-126		30	
trans-1,3-Dichloropropene	58.4		µg/L	50.00		117	77.6-129		30	
Trichloroethene	53.3		µg/L	50.00		107	73.1-131		30	
Trichlorofluoromethane	54.8		µg/L	50.00		110	61.3-140		30	
Vinyl Acetate	69.9		µg/L	50.00		140	52.4-154		30	
Vinyl chloride	41.1		µg/L	50.00		82.3	48.5-124		30	
Surrogate: 1,2-Dichloroethane-d4	*49*		µg/L	*50.00*		*97.4*	*51.7-162*			
Surrogate: 4-Bromofluorobenzene	*51*		µg/L	*50.00*		*102*	*57.4-135*			
Surrogate: Dibromofluoromethane	*48*		µg/L	*50.00*		*97.0*	*63.5-139*			
Surrogate: Toluene-d8	*52*		µg/L	*50.00*		*104*	*66.6-143*			

Sample ID: Matrix Spike (B006439-MS1) **Method:** SW-846 8260B **Prepped:** 09/24/2010 08:31
Source: 10I0834-01 **Analyzed:** 09/24/2010 15:40

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	57.4		µg/L	50.00	ND	115	52.5-130		30	
1,1,1-Trichloroethane	53.7		µg/L	50.00	ND	107	46.3-135		30	
1,1,2,2-Tetrachloroethane	65.7		µg/L	50.00	ND	131	56-146		30	
1,1,2-Trichloroethane	56.5		µg/L	50.00	ND	113	60.2-129		30	
1,1-Dichloroethane	66.5		µg/L	50.00	ND	133	59-131		30	S
1,1-Dichloroethene	54.3		µg/L	50.00	ND	109	39.1-116		30	
1,2-Dichloroethane	56.0		µg/L	50.00	ND	112	54.7-126		30	
1,2-Dichloropropane	58.6		µg/L	50.00	ND	117	62.9-118		30	
2-Butanone	49.7		µg/L	50.00	ND	99.5	38.1-138		30	
2-Hexanone	45.2		µg/L	50.00	ND	90.3	34-149		30	
4-Methyl-2-Pentanone	60.2		µg/L	50.00	ND	120	31.1-175		30	
Acetone	103		µg/L	50.00	34.0	139	27.9-161		30	
Acrylonitrile	56.8		µg/L	50.00	ND	114	39.4-186		30	
Benzene	60.4		µg/L	50.00	3.50	114	54.8-120		30	
Bromodichloromethane	54.8		µg/L	50.00	ND	110	54.6-122		30	
Bromoform	37.2		µg/L	50.00	ND	74.3	31-122		30	
Bromomethane	-50.0		µg/L	50.00	ND		10.8-142		30	
Carbon Disulfide	67.5		µg/L	50.00	1.68	132	16-177		30	
Carbon tetrachloride	58.8		µg/L	50.00	ND	118	41.6-132		30	
Chlorobenzene	53.9		µg/L	50.00	ND	108	36.8-129		30	
Chloroethane	71.3		µg/L	50.00	ND	143	42.4-126		30	S
Chloroform	60.4		µg/L	50.00	ND	121	64-123		30	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Volatiles - Quality Control**
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

Batch: B006439

Sample ID: Matrix Spike (B006439-MS1) **Method:** SW-846 8260B **Prepped:** 09/24/2010 08:31
Source: 10I0834-01 **Analyzed:** 09/24/2010 15:40

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Chloromethane	51.9		µg/L	50.00	ND	104	45.3-143		30	
cis-1,2-Dichloroethene	59.8		µg/L	50.00	ND	120	67-126		30	
cis-1,3-Dichloropropene	62.4		µg/L	50.00	ND	125	49.9-139		30	
Dibromochloromethane	47.4		µg/L	50.00	ND	94.8	52.1-132		30	
Ethylbenzene	62.4		µg/L	50.00	2.79	119	33.4-133		30	
m,p-Xylene	117		µg/L	100.0	2.96	114	30.5-132		30	
Methylene chloride	57.4		µg/L	50.00	1.99	111	53.8-125		30	
Methyl-t-Butyl Ether	55.0		µg/L	50.00	ND	110	41.1-144		30	
o-Xylene	57.4		µg/L	50.00	1.15	112	38-123		30	
Styrene	47.4		µg/L	50.00	ND	94.9	16.9-131		30	
Tetrachloroethene	60.4		µg/L	50.00	ND	121	43-135		30	
Toluene	69.7		µg/L	50.00	8.11	123	35.2-143		30	
trans-1,2-Dichloroethene	59.9		µg/L	50.00	ND	120	53.7-120		30	
trans-1,3-Dichloropropene	65.0		µg/L	50.00	ND	130	42-148		30	
Trichloroethene	58.1		µg/L	50.00	ND	116	37.1-145		30	
Trichlorofluoromethane	67.4		µg/L	50.00	ND	135	40.5-141		30	
Vinyl Acetate	73.8		µg/L	50.00	ND	148	22.5-184		30	
Vinyl chloride	52.7		µg/L	50.00	ND	105	54.5-143		30	
Surrogate: 1,2-Dichloroethane-d4	*49*		µg/L	*50.00*		*98.4*	*51.7-162*			
Surrogate: 4-Bromofluorobenzene	*46*		µg/L	*50.00*		*91.7*	*57.4-135*			
Surrogate: Dibromofluoromethane	*49*		µg/L	*50.00*		*97.2*	*63.5-139*			
Surrogate: Toluene-d8	*57*		µg/L	*50.00*		*114*	*66.6-143*			

Sample ID: Matrix Spike (B006439-MS2) **Method:** SW-846 8260B **Prepped:** 09/24/2010 08:31
Source: 10I0692-02 **Analyzed:** 09/24/2010 16:09

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	55.8		µg/L	50.00	ND	112	52.5-130		30	
1,1,1-Trichloroethane	57.3		µg/L	50.00	ND	115	46.3-135		30	
1,1,2,2-Tetrachloroethane	67.8		µg/L	50.00	ND	136	56-146		30	
1,1,2-Trichloroethane	55.3		µg/L	50.00	ND	111	60.2-129		30	
1,1-Dichloroethane	61.1		µg/L	50.00	ND	122	59-131		30	
1,1-Dichloroethene	51.8		µg/L	50.00	ND	104	39.1-116		30	
1,2-Dichloroethane	51.0		µg/L	50.00	ND	102	54.7-126		30	
1,2-Dichloropropane	55.6		µg/L	50.00	ND	111	62.9-118		30	
2-Butanone	49.3		µg/L	50.00	5.82	87.0	38.1-138		30	
2-Hexanone	53.3		µg/L	50.00	ND	107	34-149		30	
4-Methyl-2-Pentanone	57.9		µg/L	50.00	ND	116	31.1-175		30	
Acetone	81.1		µg/L	50.00	66.9	28.4	27.9-161		30	
Acrylonitrile	52.9		µg/L	50.00	ND	106	39.4-186		30	
Benzene	56.2		µg/L	50.00	3.26	106	54.8-120		30	
Bromodichloromethane	52.3		µg/L	50.00	ND	105	54.6-122		30	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Volatiles - Quality Control**
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

Batch: B006439

Sample ID: Matrix Spike (B006439-MS2) **Method:** SW-846 8260B **Prepped:** 09/24/2010 08:31
Source: 10I0692-02 **Analyzed:** 09/24/2010 16:09

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Bromoform	37.2		µg/L	50.00	ND	74.5	31-122		30	
Bromomethane	45.3		µg/L	50.00	ND	90.6	10.8-142		30	
Carbon Disulfide	65.5		µg/L	50.00	2.59	126	16-177		30	
Carbon tetrachloride	56.0		µg/L	50.00	ND	112	41.6-132		30	
Chlorobenzene	52.0		µg/L	50.00	ND	104	36.8-129		30	
Chloroethane	78.6		µg/L	50.00	ND	157	42.4-126		30	S
Chloroform	56.0		µg/L	50.00	ND	112	64-123		30	
Chloromethane	49.6		µg/L	50.00	ND	99.2	45.3-143		30	
cis-1,2-Dichloroethene	56.1		µg/L	50.00	ND	112	67-126		30	
cis-1,3-Dichloropropene	57.5		µg/L	50.00	ND	115	49.9-139		30	
Dibromochloromethane	47.4		µg/L	50.00	ND	94.8	52.1-132		30	
Ethylbenzene	60.9		µg/L	50.00	1.62	119	33.4-133		30	
m,p-Xylene	113		µg/L	100.0	1.62	112	30.5-132		30	
Methylene chloride	55.8		µg/L	50.00	2.98	106	53.8-125		30	
Methyl-t-Butyl Ether	53.4		µg/L	50.00	ND	107	41.1-144		30	
o-Xylene	57.3		µg/L	50.00	ND	115	38-123		30	
Styrene	43.5		µg/L	50.00	ND	87.0	16.9-131		30	
Tetrachloroethene	59.4		µg/L	50.00	ND	119	43-135		30	
Toluene	63.9		µg/L	50.00	5.44	117	35.2-143		30	
trans-1,2-Dichloroethene	55.0		µg/L	50.00	ND	110	53.7-120		30	
trans-1,3-Dichloropropene	60.8		µg/L	50.00	ND	122	42-148		30	
Trichloroethene	53.2		µg/L	50.00	ND	106	37.1-145		30	
Trichlorofluoromethane	64.5		µg/L	50.00	ND	129	40.5-141		30	
Vinyl Acetate	72.0		µg/L	50.00	ND	144	22.5-184		30	
Vinyl chloride	47.8		µg/L	50.00	ND	95.6	54.5-143		30	
Surrogate: 1,2-Dichloroethane-d4	*47*		µg/L	*50.00*		*94.9*	*51.7-162*			
Surrogate: 4-Bromofluorobenzene	*46*		µg/L	*50.00*		*92.1*	*57.4-135*			
Surrogate: Dibromofluoromethane	*49*		µg/L	*50.00*		*97.3*	*63.5-139*			
Surrogate: Toluene-d8	*57*		µg/L	*50.00*		*115*	*66.6-143*			

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Metals - Quality Control**
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

Batch: B006234 **Prep:** SW846 3050B

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Metals - Quality Control**
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

Batch: B006234 **Prep:** SW846 3050B

Total Metals by ICP

Sample ID: Blank (B006234-BLK1) **Method:** SW-846 6010B **Prepped:** 09/20/2010 08:44
Source: **Analyzed:** 09/22/2010 19:29

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	ND	0.50	mg/Kg wet							
Barium	ND	0.10	mg/Kg wet							
Cadmium	ND	0.10	mg/Kg wet							
Chromium	ND	0.15	mg/Kg wet							
Lead	ND	0.38	mg/Kg wet							
Selenium	ND	1.5	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							

Sample ID: LCS (B006234-BS1) **Method:** SW-846 6010B **Prepped:** 09/20/2010 08:44
Source: **Analyzed:** 09/22/2010 19:56

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	228	1.0	mg/Kg wet	238.0		96.0	65.1-118		20	
Barium	239	0.20	mg/Kg wet	243.0		98.4	68.3-118		20	
Cadmium	169	0.20	mg/Kg wet	185.0		91.4	64.9-112		20	
Chromium	107	0.30	mg/Kg wet	104.0		103	65.8-124		20	
Lead	135	0.75	mg/Kg wet	154.0		87.9	62.9-110		20	
Selenium	131	3.0	mg/Kg wet	156.0		83.8	54.9-110		20	
Silver	64.2	1.0	mg/Kg wet	73.20		87.7	56.8-113		20	

Sample ID: Matrix Spike (B006234-MS1) **Method:** SW-846 6010B **Prepped:** 09/20/2010 08:44
Source: 10I0668-01 **Analyzed:** 09/22/2010 20:46

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	119	0.58	mg/Kg dry	116.9	3.03	98.8	75-125		20	
Barium	255	0.12	mg/Kg dry	128.6	6.71	193	75-125		20	S
Cadmium	12.1	0.12	mg/Kg dry	11.69	0.221	102	75-125		20	
Chromium	132	0.18	mg/Kg dry	116.9	2.33	111	75-125		20	
Lead	129	0.44	mg/Kg dry	116.9	22.3	91.3	75-125		20	
Selenium	112	1.8	mg/Kg dry	116.9	5.92	91.0	75-125		20	
Silver	11.2	0.58	mg/Kg dry	11.69	0.176	94.1	75-125		20	

Sample ID: Matrix Spike Dup (B006234-MSD1) **Method:** SW-846 6010B **Prepped:** 09/20/2010 08:44
Source: 10I0668-01 **Analyzed:** 09/22/2010 21:13

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	117	0.58	mg/Kg dry	116.9	3.03	97.2	75-125	1.64	20	
Barium	256	0.12	mg/Kg dry	128.6	6.71	194	75-125	0.321	20	S
Cadmium	11.2	0.12	mg/Kg dry	11.69	0.221	93.8	75-125	7.88	20	
Chromium	130	0.18	mg/Kg dry	116.9	2.33	109	75-125	1.56	20	
Lead	127	0.44	mg/Kg dry	116.9	22.3	89.3	75-125	1.87	20	
Selenium	110	1.8	mg/Kg dry	116.9	5.92	89.2	75-125	1.84	20	
Silver	11.1	0.58	mg/Kg dry	11.69	0.176	93.2	75-125	0.946	20	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Metals - Quality Control**
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

Batch: B006234 **Prep:** SW846 3050B

Sample ID: Post Spike (B006234-PS1) **Method:** SW-846 6010B **Prepped:** 09/20/2010 08:44
Source: 10I0668-01 **Analyzed:** 09/23/2010 12:43

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Barium	4.38		mg/Kg	2.200	0.118	194	85-115			S

Batch: B006249 **Prep:** SW-846 7471

Total Mercury by CVAA

Sample ID: Blank (B006249-BLK1) **Method:** SW-846 7471A **Prepped:** 09/20/2010 08:46
Source: **Analyzed:** 09/21/2010 13:17

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Mercury	ND	0.0010	mg/Kg wet							

Sample ID: LCS (B006249-BS1) **Method:** SW-846 7471A **Prepped:** 09/20/2010 08:46
Source: **Analyzed:** 09/21/2010 13:19

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Mercury	5.94	2.0	mg/Kg wet	7.070		84.0	41.9-122			

Sample ID: Matrix Spike (B006249-MS1) **Method:** SW-846 7471A **Prepped:** 09/20/2010 08:46
Source: 10I0668-01 **Analyzed:** 09/21/2010 13:30

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Mercury	0.117	0.042	mg/Kg dry	0.08350	0.0343	99.0	70-130		20	

Sample ID: Matrix Spike Dup (B006249-MSD1) **Method:** SW-846 7471A **Prepped:** 09/20/2010 08:46
Source: 10I0668-01 **Analyzed:** 09/21/2010 13:32

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Mercury	0.110	0.043	mg/Kg dry	0.08595	0.0343	88.4	70-130	5.94	20	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Wet Chemistry - Quality Control**
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

Batch: B006258

Percent Solids

Sample ID: Duplicate (B006258-DUP1) **Method:** SM2540B Rev 18 **Prepped:** 09/20/2010 12:09
Source: 10I0668-01 **Analyzed:** 09/21/2010 06:10

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Percent Solids	85.5	0.10	wt%		85.5			0.102	20	

Microbac®

Samples Submitted to:
[X] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664
[ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

Chain of Custody Record

Number 98238

Instructions on back

Client Name: LATA-Kemron Remediation LLC	Project: Bautsch Gray Mine Site	Turnaround Time	Report Type
Address: 2424 Louisiana Blvd. NE Ste 400	Location:	[✓] Routine [7] working days	[ ] Results Only [ ] Level II
City, State, Zip: Albuquerque, NM 87110	PO #: LKR21-10-005	[ ] RUSH* (notify lab)	[ ] Level III [ ] Level III CLP-like
Contact: Tom Urmson	Compliance Monitoring? [ ] Yes(1) [✓] No	_____ (needed by)	[ ] Level IV [ ] Level IV CLP-like
Telephone #: 614-653-9604	(1)Agency/Program		[ ] EDD

Sampled by (PRINT): Tom Urmson Sampler Signature: _____ Sampler Phone #: _____

Send Report via [ ] Mail [ ] Telephone [ ] Fax (fax #) _____ [✓] e-mail (address) tomurmson@gmail.com

* **Matrix Types:** Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** **Preservative Types:** (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types ** ↓	VOC's	SVOCs	RCRA metals	PCBs					For Lab Use Only
TS 1	S	✓			9/17/10	4:10pm	5	VArious	✓	✓	✓	✓					10I0668 01

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive Sample Disposition [ ] Dispose as appropriate [ ] Return [ ] Archive

Comments

Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
Tom Urmson	9/17/10		
Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
Relinquished By (signature)	Date/Time	Received for Lab By (signature)	Date/Time
			9/18/10 1020

Sample temperature upon receipt in degrees C = 4° ±

rev. 11/04/04

Page ____ of ____

September 27, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10I0637

Re: Bautsch - Gray Mine Site

Dear Tom Urmson:

Microbac Laboratories, Inc. - Chicagoland Division received 2 sample(s) on 9/17/2010 10:00:00AM for the analyses presented in the following report as Work Order 10I0637.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

Deborah Griffiths
Senior Project Manager

WORK ORDER SAMPLE SUMMARY

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Project: Bautsch - Gray Mine Site
Lab Order: 10I0637

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10I0637-01	BH1		09/16/2010 12:30	9/17/2010 10:00:00AM
10I0637-02	BH2		09/16/2010 12:40	9/17/2010 10:00:00AM

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH1
Sample Description:
Matrix: Solid

Work Order/ID: 10I0637-01
Sampled: 09/16/2010 12:30
Received: 09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Polychlorinated Biphenyls		Method: **SW-846 8082** Prep Method: **SW846 3550**				Analyst: **jw** Prep Date/Time: **09/21/2010 06:07**	
Aroclor 1016	A	***ND***	37		µg/Kg dry	1	09/21/2010 17:14
Aroclor 1221	A	***ND***	37		µg/Kg dry	1	09/21/2010 17:14
Aroclor 1232	A	***ND***	37		µg/Kg dry	1	09/21/2010 17:14
Aroclor 1242	A	***ND***	37		µg/Kg dry	1	09/21/2010 17:14
Aroclor 1248	A	***ND***	37		µg/Kg dry	1	09/21/2010 17:14
Aroclor 1254	A	***ND***	37		µg/Kg dry	1	09/21/2010 17:14
Aroclor 1260	A	***ND***	37		µg/Kg dry	1	09/21/2010 17:14
Aroclor 1262	A	***ND***	37		µg/Kg dry	1	09/21/2010 17:14
Aroclor 1268	A	***ND***	37		µg/Kg dry	1	09/21/2010 17:14
Total PCB's	A	***ND***	37		µg/Kg dry	1	09/21/2010 17:14
Surr: Decachlorobiphenyl	S	85.00	38-128		%REC	1	09/21/2010 17:14
Surr: Tetrachloro-m-xylene	S	90.00	40-130		%REC	1	09/21/2010 17:14
Semivolatile Organic Compounds		Method: **SW-846 8270C** Prep Method: **SW846 3550A**				Analyst: **cr** Prep Date/Time: **09/23/2010 07:21**	
1,2,4-Trichlorobenzene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
1,2-Dichlorobenzene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
1,2-Diphenyl-hydrazine	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
1,3-Dichlorobenzene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
1,4-Dichlorobenzene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
2,2´-oxybis(1-chloropropane)	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
2,4,5-Trichlorophenol	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
2,4,6-Trichlorophenol	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
2,4-Dichlorophenol	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
2,4-Dimethylphenol	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
2,4-Dinitrophenol	A	***ND***	1800		µg/Kg dry	1	09/23/2010 12:48
2,4-Dinitrotoluene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
2,6-Dichlorophenol	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
2,6-Dinitrotoluene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
2-Chloronaphthalene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
2-Chlorophenol	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
2-Methyl-4,6-dinitrophenol	A	***ND***	1800		µg/Kg dry	1	09/23/2010 12:48
2-Methylnaphthalene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
2-Methylphenol	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
2-Nitroaniline	A	***ND***	1800		µg/Kg dry	1	09/23/2010 12:48
2-Nitrophenol	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
3,3´-Dichlorobenzidine	A	***ND***	1800		µg/Kg dry	1	09/23/2010 12:48
3,4-Benzofluoranthene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
3/4-Methylphenol	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
3-Nitroaniline	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
4,6-Dinitro-2-methylphenol	A	***ND***	1800		µg/Kg dry	1	09/23/2010 12:48
4,6-Dinitro-o-cresol	A	***ND***	1800		µg/Kg dry	1	09/23/2010 12:48

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH1
Sample Description:
Matrix: Solid

Work Order/ID: 10I0637-01
Sampled: 09/16/2010 12:30
Received: 09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 8270C**					Analyst: **cr**
Semivolatile Organic Compounds		Prep Method: **SW846 3550A**					Prep Date/Time: **09/23/2010 07:21**
4-Bromophenyl phenyl ether	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
4-Chloro-3-methylphenol	A	***ND***	730		µg/Kg dry	1	09/23/2010 12:48
4-Chloroaniline	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
4-Chlorophenyl phenyl ether	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
4-Nitroaniline	A	***ND***	1800		µg/Kg dry	1	09/23/2010 12:48
4-Nitrophenol	A	***ND***	1800		µg/Kg dry	1	09/23/2010 12:48
Acenaphthene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Acenaphthylene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Acetophenone	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Aniline	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Anthracene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Benzidine	A	***ND***	1800		µg/Kg dry	1	09/23/2010 12:48
Benzo[a]anthracene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Benzo[a]pyrene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Benzo[b]fluoranthene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Benzo[g,h,i]perylene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Benzo[k]fluoranthene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Benzoic acid	A	***ND***	1800		µg/Kg dry	1	09/23/2010 12:48
Benzyl alcohol	A	***ND***	730		µg/Kg dry	1	09/23/2010 12:48
beta-Chloronaphthalene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Bis(2-chloroethoxy)methane	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Bis(2-chloroethyl)ether	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Bis(2-ethylhexyl)phthalate	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Butyl benzyl phthalate	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Carbazole	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Chrysene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Di(2-ethylhexyl) phthalate	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Dibenz[a,h]anthracene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Dibenzofuran	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Diethyl phthalate	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Dimethyl phthalate	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Di-n-butyl phthalate	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Di-n-octyl phthalate	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Fluoranthene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Fluorene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Hexachlorobenzene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Hexachlorobutadiene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Hexachlorocyclopentadiene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Hexachloroethane	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Indeno[1,2,3cd]pyrene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Isophorone	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH1
Sample Description:
Matrix: Solid

Work Order/ID: 10I0637-01
Sampled: 09/16/2010 12:30
Received: 09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 8270C**					Analyst: **cr**
Semivolatile Organic Compounds		Prep Method: **SW846 3550A**					Prep Date/Time: **09/23/2010 07:21**
m-Dichlorobenzene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Naphthalene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Nitrobenzene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
N-Nitrosodimethylamine	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
N-Nitrosodi-n-propylamine	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
N-Nitrosodiphenylamine	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
o-Chlorophenol	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
p-Chloroaniline	A	***ND***	730		µg/Kg dry	1	09/23/2010 12:48
p-Chloro-m-cresol	A	***ND***	730		µg/Kg dry	1	09/23/2010 12:48
p-Cresol	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Pentachlorophenol	A	***ND***	1800		µg/Kg dry	1	09/23/2010 12:48
Phenanthrene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Phenol	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Pyrene	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Pyridine	A	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Total Cresol	M	***ND***	370		µg/Kg dry	1	09/23/2010 12:48
Surr: 2,4,6-Tribromophenol	S	81.50	13.9-145		%REC	1	09/23/2010 12:48
Surr: 2-Fluorobiphenyl	S	81.10	28.1-110		%REC	1	09/23/2010 12:48
Surr: 2-Fluorophenol	S	71.00	24.5-110		%REC	1	09/23/2010 12:48
Surr: Nitrobenzene-d5	S	80.70	33.6-110		%REC	1	09/23/2010 12:48
Surr: Phenol-d5	S	76.80	29.6-110		%REC	1	09/23/2010 12:48
Surr: Terphenyl-d14	S	96.10	35.8-121		%REC	1	09/23/2010 12:48
		Method: **SW-846 8260B**					Analyst: **JLN**
Volatile Organic Compounds, 5035 prep, SB preserve							Prep Date/Time: **09/17/2010 11:58**
1,1,1,2-Tetrachloroethane	A	***ND***	6.3		µg/Kg dry	1	09/17/2010 15:08
1,1,1-Trichloroethane	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
1,1,2,2-Tetrachloroethane	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
1,1,2-Trichloroethane	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
1,1-Dichloroethane	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
1,1-Dichloroethene	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
1,2-Dichloroethane	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
1,2-Dichloropropane	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
2-Butanone	A	***ND***	6.3		µg/Kg dry	1	09/17/2010 15:08
2-Hexanone	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
4-Methyl-2-Pentanone	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
Acetone	A	***ND***	32		µg/Kg dry	1	09/17/2010 15:08
Acrolein	A	***ND***	63		µg/Kg dry	1	09/17/2010 15:08
Acrylonitrile	A	***ND***	63		µg/Kg dry	1	09/17/2010 15:08
Benzene	A	***4.9***	3.2		µg/Kg dry	1	09/17/2010 15:08
Bromodichloromethane	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
Bromoform	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH1
Sample Description:
Matrix: Solid

Work Order/ID: 10I0637-01
Sampled: 09/16/2010 12:30
Received: 09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 8260B**					Analyst: **JLN**
Volatile Organic Compounds, 5035 prep, SB preserve							Prep Date/Time: **09/17/2010 11:58**
Bromomethane	A	***ND***	6.3		µg/Kg dry	1	09/17/2010 15:08
Carbon Disulfide	A	***ND***	6.3		µg/Kg dry	1	09/17/2010 15:08
Carbon tetrachloride	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
Chlorobenzene	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
Chloroethane	A	***ND***	6.3		µg/Kg dry	1	09/17/2010 15:08
Chloroform	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
Chloromethane	A	***ND***	6.3		µg/Kg dry	1	09/17/2010 15:08
cis-1,2-Dichloroethene	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
cis-1,3-Dichloropropene	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
Dibromochloromethane	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
Ethylbenzene	A	***7.3***	3.2		µg/Kg dry	1	09/17/2010 15:08
m,p-Xylene	A	***5.4***	3.2		µg/Kg dry	1	09/17/2010 15:08
Methylene chloride	A	***ND***	13		µg/Kg dry	1	09/17/2010 15:08
Methyl-t-Butyl Ether	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
o-Xylene	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
Styrene	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
Tetrachloroethene	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
Toluene	A	***15***	3.2		µg/Kg dry	1	09/17/2010 15:08
trans-1,2-Dichloroethene	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
trans-1,3-Dichloropropene	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
Trichloroethene	A	***ND***	3.2		µg/Kg dry	1	09/17/2010 15:08
Trichlorofluoromethane	A	***ND***	6.3		µg/Kg dry	1	09/17/2010 15:08
Vinyl Acetate	A	***ND***	6.3		µg/Kg dry	1	09/17/2010 15:08
Vinyl chloride	A	***ND***	6.3		µg/Kg dry	1	09/17/2010 15:08
Total 1,2-Dichloroethene	M	***ND***	6.3		µg/Kg dry	1	09/17/2010 15:08
Total Xylenes	M	***7.9***	3.2		µg/Kg dry	1	09/17/2010 15:08
Surr: 1,2-Dichloroethane-d4	S	110.00	51.7-162		%REC	1	09/17/2010 15:08
Surr: 4-Bromofluorobenzene	S	102.00	57.4-135		%REC	1	09/17/2010 15:08
Surr: Dibromofluoromethane	S	101.00	63.5-139		%REC	1	09/17/2010 15:08
Surr: Toluene-d8	S	103.00	66.6-143		%REC	1	09/17/2010 15:08
		Method: **SW-846 6010B**					Analyst: **SA**
Total Metals by ICP		Prep Method: **SW846 3050B**					Prep Date/Time: **09/20/2010 08:44**
Arsenic	A	***3.3***	0.56		mg/Kg dry	1	09/22/2010 20:29
Barium	A	***12***	0.11		mg/Kg dry	1	09/22/2010 20:29
Cadmium	A	***0.30***	0.11		mg/Kg dry	1	09/22/2010 20:29
Chromium	A	***2.7***	0.17		mg/Kg dry	1	09/22/2010 20:29
Lead	A	***49***	0.42		mg/Kg dry	1	09/22/2010 20:29
Selenium	A	***5.3***	1.7		mg/Kg dry	1	09/22/2010 20:29
Silver	A	***ND***	0.56		mg/Kg dry	1	09/22/2010 20:29
		Method: **SW-846 7471A**					Analyst: **SA**
Total Mercury by CVAA		Prep Method: **SW-846 7471**					Prep Date/Time: **09/20/2010 08:46**

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH1
Sample Description:
Matrix: Solid

Work Order/ID: 10I0637-01
Sampled: 09/16/2010 12:30
Received: 09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Mercury by CVAA		Method: **SW-846 7471A** Prep Method: **SW-846 7471**				Analyst: **SA** Prep Date/Time: **09/20/2010 08:46**	
Mercury	A	***ND***	0.045		mg/Kg dry	1	09/21/2010 13:26
Percent Solids		Method: **SM2540B Rev 18** Prep Date/Time: **09/17/2010 15:01**				Analyst: **CSTAS**	
Percent Solids	A	***90***	0.10		wt%	1	09/20/2010 6:30

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH2
Sample Description:
Matrix: Solid

Work Order/ID: 10I0637-02
Sampled: 09/16/2010 12:40
Received: 09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Polychlorinated Biphenyls		Method: **SW-846 8082** Prep Method: **SW846 3550**				Analyst: **jw** Prep Date/Time: **09/21/2010 06:07**	
Aroclor 1016	A	***ND***	34		µg/Kg dry	1	09/21/2010 17:39
Aroclor 1221	A	***ND***	34		µg/Kg dry	1	09/21/2010 17:39
Aroclor 1232	A	***ND***	34		µg/Kg dry	1	09/21/2010 17:39
Aroclor 1242	A	***ND***	34		µg/Kg dry	1	09/21/2010 17:39
Aroclor 1248	A	***ND***	34		µg/Kg dry	1	09/21/2010 17:39
Aroclor 1254	A	***ND***	34		µg/Kg dry	1	09/21/2010 17:39
Aroclor 1260	A	***ND***	34		µg/Kg dry	1	09/21/2010 17:39
Aroclor 1262	A	***ND***	34		µg/Kg dry	1	09/21/2010 17:39
Aroclor 1268	A	***ND***	34		µg/Kg dry	1	09/21/2010 17:39
Total PCB's	A	***ND***	34		µg/Kg dry	1	09/21/2010 17:39
Surr: Decachlorobiphenyl	S	85.00	38-128		%REC	1	09/21/2010 17:39
Surr: Tetrachloro-m-xylene	S	85.00	40-130		%REC	1	09/21/2010 17:39
Semivolatile Organic Compounds		Method: **SW-846 8270C** Prep Method: **SW846 3550A**				Analyst: **cr** Prep Date/Time: **09/23/2010 07:21**	
1,2,4-Trichlorobenzene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
1,2-Dichlorobenzene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
1,2-Diphenyl-hydrazine	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
1,3-Dichlorobenzene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
1,4-Dichlorobenzene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
2,2´-oxybis(1-chloropropane)	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
2,4,5-Trichlorophenol	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
2,4,6-Trichlorophenol	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
2,4-Dichlorophenol	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
2,4-Dimethylphenol	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
2,4-Dinitrophenol	A	***ND***	1700		µg/Kg dry	1	09/23/2010 13:11
2,4-Dinitrotoluene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
2,6-Dichlorophenol	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
2,6-Dinitrotoluene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
2-Chloronaphthalene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
2-Chlorophenol	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
2-Methyl-4,6-dinitrophenol	A	***ND***	1700		µg/Kg dry	1	09/23/2010 13:11
2-Methylnaphthalene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
2-Methylphenol	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
2-Nitroaniline	A	***ND***	1700		µg/Kg dry	1	09/23/2010 13:11
2-Nitrophenol	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
3,3´-Dichlorobenzidine	A	***ND***	1700		µg/Kg dry	1	09/23/2010 13:11
3,4-Benzofluoranthene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
3/4-Methylphenol	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
3-Nitroaniline	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
4,6-Dinitro-2-methylphenol	A	***ND***	1700		µg/Kg dry	1	09/23/2010 13:11
4,6-Dinitro-o-cresol	A	***ND***	1700		µg/Kg dry	1	09/23/2010 13:11

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH2
Sample Description:
Matrix: Solid

Work Order/ID: 10I0637-02
Sampled: 09/16/2010 12:40
Received: 09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 8270C**					Analyst: **cr**
Semivolatile Organic Compounds		Prep Method: **SW846 3550A**					Prep Date/Time: **09/23/2010 07:21**
4-Bromophenyl phenyl ether	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
4-Chloro-3-methylphenol	A	***ND***	680		µg/Kg dry	1	09/23/2010 13:11
4-Chloroaniline	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
4-Chlorophenyl phenyl ether	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
4-Nitroaniline	A	***ND***	1700		µg/Kg dry	1	09/23/2010 13:11
4-Nitrophenol	A	***ND***	1700		µg/Kg dry	1	09/23/2010 13:11
Acenaphthene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Acenaphthylene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Acetophenone	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Aniline	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Anthracene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Benzidine	A	***ND***	1700		µg/Kg dry	1	09/23/2010 13:11
Benzo[a]anthracene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Benzo[a]pyrene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Benzo[b]fluoranthene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Benzo[g,h,i]perylene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Benzo[k]fluoranthene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Benzoic acid	A	***ND***	1700		µg/Kg dry	1	09/23/2010 13:11
Benzyl alcohol	A	***ND***	680		µg/Kg dry	1	09/23/2010 13:11
beta-Chloronaphthalene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Bis(2-chloroethoxy)methane	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Bis(2-chloroethyl)ether	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Bis(2-ethylhexyl)phthalate	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Butyl benzyl phthalate	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Carbazole	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Chrysene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Di(2-ethylhexyl) phthalate	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Dibenz[a,h]anthracene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Dibenzofuran	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Diethyl phthalate	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Dimethyl phthalate	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Di-n-butyl phthalate	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Di-n-octyl phthalate	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Fluoranthene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Fluorene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Hexachlorobenzene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Hexachlorobutadiene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Hexachlorocyclopentadiene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Hexachloroethane	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Indeno[1,2,3cd]pyrene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Isophorone	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH2
Sample Description:
Matrix: Solid

Work Order/ID: 10I0637-02
Sampled: 09/16/2010 12:40
Received: 09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 8270C**					Analyst: **cr**
Semivolatile Organic Compounds		Prep Method: **SW846 3550A**					Prep Date/Time: **09/23/2010 07:21**
m-Dichlorobenzene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Naphthalene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Nitrobenzene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
N-Nitrosodimethylamine	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
N-Nitrosodi-n-propylamine	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
N-Nitrosodiphenylamine	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
o-Chlorophenol	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
p-Chloroaniline	A	***ND***	680		µg/Kg dry	1	09/23/2010 13:11
p-Chloro-m-cresol	A	***ND***	680		µg/Kg dry	1	09/23/2010 13:11
p-Cresol	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Pentachlorophenol	A	***ND***	1700		µg/Kg dry	1	09/23/2010 13:11
Phenanthrene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Phenol	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Pyrene	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Pyridine	A	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Total Cresol	M	***ND***	340		µg/Kg dry	1	09/23/2010 13:11
Surr: 2,4,6-Tribromophenol	S	76.50	13.9-145		%REC	1	09/23/2010 13:11
Surr: 2-Fluorobiphenyl	S	71.80	28.1-110		%REC	1	09/23/2010 13:11
Surr: 2-Fluorophenol	S	60.40	24.5-110		%REC	1	09/23/2010 13:11
Surr: Nitrobenzene-d5	S	66.10	33.6-110		%REC	1	09/23/2010 13:11
Surr: Phenol-d5	S	71.00	29.6-110		%REC	1	09/23/2010 13:11
Surr: Terphenyl-d14	S	93.70	35.8-121		%REC	1	09/23/2010 13:11
		Method: **SW-846 8260B**					Analyst: **JLN**
Volatile Organic Compounds, 5035 prep, SB preserve							Prep Date/Time: **09/17/2010 11:58**
1,1,1,2-Tetrachloroethane	A	***ND***	4.3		µg/Kg dry	1	09/17/2010 15:38
1,1,1-Trichloroethane	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
1,1,2,2-Tetrachloroethane	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
1,1,2-Trichloroethane	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
1,1-Dichloroethane	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
1,1-Dichloroethene	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
1,2-Dichloroethane	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
1,2-Dichloropropane	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
2-Butanone	A	***ND***	4.3		µg/Kg dry	1	09/17/2010 15:38
2-Hexanone	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
4-Methyl-2-Pentanone	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
Acetone	A	***ND***	21		µg/Kg dry	1	09/17/2010 15:38
Acrolein	A	***ND***	43		µg/Kg dry	1	09/17/2010 15:38
Acrylonitrile	A	***ND***	43		µg/Kg dry	1	09/17/2010 15:38
Benzene	A	***2.3***	2.1		µg/Kg dry	1	09/17/2010 15:38
Bromodichloromethane	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
Bromoform	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH2
Sample Description:
Matrix: Solid

Work Order/ID: 10I0637-02
Sampled: 09/16/2010 12:40
Received: 09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 8260B**					Analyst: **JLN**
Volatile Organic Compounds, 5035 prep, SB preserve							Prep Date/Time: **09/17/2010 11:58**
Bromomethane	A	***ND***	4.3		µg/Kg dry	1	09/17/2010 15:38
Carbon Disulfide	A	***ND***	4.3		µg/Kg dry	1	09/17/2010 15:38
Carbon tetrachloride	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
Chlorobenzene	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
Chloroethane	A	***ND***	4.3		µg/Kg dry	1	09/17/2010 15:38
Chloroform	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
Chloromethane	A	***ND***	4.3		µg/Kg dry	1	09/17/2010 15:38
cis-1,2-Dichloroethene	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
cis-1,3-Dichloropropene	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
Dibromochloromethane	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
Ethylbenzene	A	***2.8***	2.1		µg/Kg dry	1	09/17/2010 15:38
m,p-Xylene	A	***2.1***	2.1		µg/Kg dry	1	09/17/2010 15:38
Methylene chloride	A	***ND***	8.6		µg/Kg dry	1	09/17/2010 15:38
Methyl-t-Butyl Ether	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
o-Xylene	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
Styrene	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
Tetrachloroethene	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
Toluene	A	***6.0***	2.1		µg/Kg dry	1	09/17/2010 15:38
trans-1,2-Dichloroethene	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
trans-1,3-Dichloropropene	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
Trichloroethene	A	***ND***	2.1		µg/Kg dry	1	09/17/2010 15:38
Trichlorofluoromethane	A	***ND***	4.3		µg/Kg dry	1	09/17/2010 15:38
Vinyl Acetate	A	***ND***	4.3		µg/Kg dry	1	09/17/2010 15:38
Vinyl chloride	A	***ND***	4.3		µg/Kg dry	1	09/17/2010 15:38
Total 1,2-Dichloroethene	M	***ND***	4.3		µg/Kg dry	1	09/17/2010 15:38
Total Xylenes	M	***3.0***	2.1		µg/Kg dry	1	09/17/2010 15:38
Surr: 1,2-Dichloroethane-d4	S	108.00	51.7-162		%REC	1	09/17/2010 15:38
Surr: 4-Bromofluorobenzene	S	105.00	57.4-135		%REC	1	09/17/2010 15:38
Surr: Dibromofluoromethane	S	99.60	63.5-139		%REC	1	09/17/2010 15:38
Surr: Toluene-d8	S	101.00	66.6-143		%REC	1	09/17/2010 15:38
		Method: **SW-846 6010B**					Analyst: **SA**
Total Metals by ICP		Prep Method: **SW846 3050B**					Prep Date/Time: **09/20/2010 08:44**
Arsenic	A	***4.9***	0.51		mg/Kg dry	1	09/22/2010 20:35
Barium	A	***120***	0.10		mg/Kg dry	1	09/22/2010 20:35
Cadmium	A	***0.24***	0.10		mg/Kg dry	1	09/22/2010 20:35
Chromium	A	***13***	0.15		mg/Kg dry	1	09/22/2010 20:35
Lead	A	***19***	0.38		mg/Kg dry	1	09/22/2010 20:35
Selenium	A	***2.2***	1.5		mg/Kg dry	1	09/22/2010 20:35
Silver	A	***ND***	0.51		mg/Kg dry	1	09/22/2010 20:35
		Method: **SW-846 7471A**					Analyst: **SA**
Total Mercury by CVAA		Prep Method: **SW-846 7471**					Prep Date/Time: **09/20/2010 08:46**

Analytical Results

Date: *Monday, September 27, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH2
Sample Description:
Matrix: Solid

Work Order/ID: 10I0637-02
Sampled: 09/16/2010 12:40
Received: 09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Mercury by CVAA		Method: **SW-846 7471A** Prep Method: **SW-846 7471**				Analyst: **SA** Prep Date/Time: **09/20/2010 08:46**	
Mercury	A	***ND***	0.040		mg/Kg dry	1	09/21/2010 13:27
Percent Solids		Method: **SM2540B Rev 18** Prep Method:				Analyst: **CSTAS** Prep Date/Time: **09/17/2010 15:01**	
Percent Solids	A	***97***	0.10		wt%	1	09/20/2010 6:30

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)
Indiana DEM approved support laboratory for solid waste and wastewater analyses
Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)
Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)
Kentucky DEP for the chemical analysis of drinking water (lab #90147)
Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)
*New York SDH for the chemical analysis of air and emissions (lab #11909)
North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)
Tennessee DEC for the chemical analysis of drinking water (lab #04017)
Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

COOLER INSPECTION

Date: Monday, September 27, 2010

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date/Time Received: 09/17/2010 10:00

Work Order Number: 10I0637

Received by: Dave Bryant

Checklist completed by: 9/17/2010 10:19:00AM | Dave Bryant

Reviewed by: 9/21/2010 | DDG

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 4.00°C

After-Hour Arrival?	Yes	☐	No	☑		
Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present	☐
Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	Not Present	☑
Custody seals intact on sample containers?	Yes	☐	No	☐	Not Present	☑
COC present?	Yes	☑	No	☐		
COC included sufficient client identification?	Yes	☑	No	☐		
COC included sufficient sample collector information?	Yes	☑	No	☐		
COC included a sample description?	Yes	☑	No	☐		
COC agrees with sample labels?	Yes	☑	No	☐		
COC identified the appropriate matrix?	Yes	☑	No	☐		
COC included date of collection?	Yes	☑	No	☐		
COC included time of collection?	Yes	☑	No	☐		
COC identified the appropriate number of containers?	Yes	☑	No	☐		
Samples in proper container/bottle?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
If the samples are preserved, are the preservatives identified?	Yes	☑	No	☐		
COC included the requested analyses?	Yes	☑	No	☐		

If No, adjusted by? _____

COC signed when relinquished and received?	Yes	☑	No	☐		
Samples received on ice?	Yes	☑	No	☐		
Samples properly preserved?	Yes	☑	No	☐		
Voa vials for aqueous samples have zero headspace?	Yes	☐	No	☐	No VOA vials submitted	☑

Cooler Comments:

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10I0637-01	BH1	
10I0637-02	BH2	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GC Semivolatiles - Quality Control**
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

Batch: B006277 **Prep:** SW846 3550

Polychlorinated Biphenyls

Sample ID: Blank (B006277-BLK1) **Method:** SW-846 8082 **Prepped:** 09/21/2010 06:07
Source: **Analyzed:** 09/21/2010 10:30

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	ND	33	µg/Kg wet							
Aroclor 1221	ND	33	µg/Kg wet							
Aroclor 1232	ND	33	µg/Kg wet							
Aroclor 1242	ND	33	µg/Kg wet							
Aroclor 1248	ND	33	µg/Kg wet							
Aroclor 1254	ND	33	µg/Kg wet							
Aroclor 1260	ND	33	µg/Kg wet							
Aroclor 1262	ND	33	µg/Kg wet							
Aroclor 1268	ND	33	µg/Kg wet							
Total PCB's	ND	33	µg/Kg wet							
Surrogate: Decachlorobiphenyl	*7.3*		µg/Kg wet	*6.667*		*110*	*38-128*			
Surrogate: Tetrachloro-m-xylene	*6.0*		µg/Kg wet	*6.667*		*90.0*	*40-130*			

Sample ID: LCS (B006277-BS1) **Method:** SW-846 8082 **Prepped:** 09/21/2010 06:07
Source: **Analyzed:** 09/21/2010 10:55

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	178	33	µg/Kg wet	166.7		107	30.2-145		30	
Aroclor 1260	177	33	µg/Kg wet	166.7		106	40.1-138		30	
Surrogate: Decachlorobiphenyl	*7.3*		µg/Kg wet	*6.667*		*110*	*38-128*			
Surrogate: Tetrachloro-m-xylene	*6.3*		µg/Kg wet	*6.667*		*95.0*	*40-130*			

Sample ID: Matrix Spike (B006277-MS1) **Method:** SW-846 8082 **Prepped:** 09/21/2010 06:07
Source: 10I0571-08 **Analyzed:** 09/21/2010 13:01

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	542	180	µg/Kg dry	897.7	ND	60.4	27.2-130		40	
Aroclor 1260	451	180	µg/Kg dry	897.7	ND	50.3	23.8-131		40	
Surrogate: Decachlorobiphenyl	*20*		µg/Kg dry	*35.91*		*55.0*	*38-128*			
Surrogate: Tetrachloro-m-xylene	*14*		µg/Kg dry	*35.91*		*40.0*	*40-130*			

Sample ID: Matrix Spike Dup (B006277-MSD1) **Method:** SW-846 8082 **Prepped:** 09/21/2010 06:07
Source: 10I0571-08 **Analyzed:** 09/21/2010 13:26

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	548	180	µg/Kg dry	897.4	ND	61.1	27.2-130	1.09	40	
Aroclor 1260	497	180	µg/Kg dry	897.4	ND	55.4	23.8-131	9.58	40	
Surrogate: Decachlorobiphenyl	*20*		µg/Kg dry	*35.90*		*55.0*	*38-128*			
Surrogate: Tetrachloro-m-xylene	*14*		µg/Kg dry	*35.90*		*40.0*	*40-130*			S

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

GCMS Semivolatiles - Quality Control

Batch: B006388 **Prep:** SW846 3550A

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Semivolatiles - Quality Control**
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Semivolatile Organic Compounds

Sample ID: Blank (B006388-BLK1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: **Analyzed:** 09/23/2010 10:25

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene	ND	330	µg/Kg wet							
1,2-Dichlorobenzene	ND	330	µg/Kg wet							
1,2-Diphenyl-hydrazine	ND	330	µg/Kg wet							
1,3-Dichlorobenzene	ND	330	µg/Kg wet							
1,4-Dichlorobenzene	ND	330	µg/Kg wet							
2,2´-oxybis(1-chloropropane)	ND	330	µg/Kg wet							
2,4,5-Trichlorophenol	ND	330	µg/Kg wet							
2,4,6-Trichlorophenol	ND	330	µg/Kg wet							
2,4-Dichlorophenol	ND	330	µg/Kg wet							
2,4-Dimethylphenol	ND	330	µg/Kg wet							
2,4-Dinitrophenol	ND	1600	µg/Kg wet							
2,4-Dinitrotoluene	ND	330	µg/Kg wet							
2,6-Dichlorophenol	ND	330	µg/Kg wet							
2,6-Dinitrotoluene	ND	330	µg/Kg wet							
2-Chloronaphthalene	ND	330	µg/Kg wet							
2-Chlorophenol	ND	330	µg/Kg wet							
2-Methyl-4,6-dinitrophenol	ND	1600	µg/Kg wet							
2-Methylnaphthalene	ND	330	µg/Kg wet							
2-Methylphenol	ND	330	µg/Kg wet							
2-Nitroaniline	ND	1600	µg/Kg wet							
2-Nitrophenol	ND	330	µg/Kg wet							
3,3´-Dichlorobenzidine	ND	1600	µg/Kg wet							
3,4-Benzofluoranthene	ND	330	µg/Kg wet							
3/4-Methylphenol	ND	330	µg/Kg wet							
3-Nitroaniline	ND	330	µg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	1600	µg/Kg wet							
4,6-Dinitro-o-cresol	ND	1600	µg/Kg wet							
4-Bromophenyl phenyl ether	ND	330	µg/Kg wet							
4-Chloro-3-methylphenol	ND	660	µg/Kg wet							
4-Chloroaniline	ND	330	µg/Kg wet							
4-Chlorophenyl phenyl ether	ND	330	µg/Kg wet							
4-Nitroaniline	ND	1600	µg/Kg wet							
4-Nitrophenol	ND	1600	µg/Kg wet							
Acenaphthene	ND	330	µg/Kg wet							
Acenaphthylene	ND	330	µg/Kg wet							
Acetophenone	ND	330	µg/Kg wet							
Aniline	ND	330	µg/Kg wet							
Anthracene	ND	330	µg/Kg wet							
Benzidine	ND	1600	µg/Kg wet							

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Semivolatiles - Quality Control**
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Sample ID: Blank (B006388-BLK1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: **Analyzed:** 09/23/2010 10:25

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Benzo[a]anthracene	ND	330	µg/Kg wet							
Benzo[a]pyrene	ND	330	µg/Kg wet							
Benzo[b]fluoranthene	ND	330	µg/Kg wet							
Benzo[g,h,i]perylene	ND	330	µg/Kg wet							
Benzo[k]fluoranthene	ND	330	µg/Kg wet							
Benzoic acid	ND	1600	µg/Kg wet							
Benzyl alcohol	ND	660	µg/Kg wet							
beta-Chloronaphthalene	ND	330	µg/Kg wet							
Bis(2-chloroethoxy)methane	ND	330	µg/Kg wet							
Bis(2-chloroethyl)ether	ND	330	µg/Kg wet							
Bis(2-ethylhexyl)phthalate	ND	330	µg/Kg wet							
Butyl benzyl phthalate	ND	330	µg/Kg wet							
Carbazole	ND	330	µg/Kg wet							
Chrysene	ND	330	µg/Kg wet							
Di(2-ethylhexyl) phthalate	ND	330	µg/Kg wet							
Dibenz[a,h]anthracene	ND	330	µg/Kg wet							
Dibenzofuran	ND	330	µg/Kg wet							
Diethyl phthalate	ND	330	µg/Kg wet							
Dimethyl phthalate	ND	330	µg/Kg wet							
Di-n-butyl phthalate	ND	330	µg/Kg wet							
Di-n-octyl phthalate	ND	330	µg/Kg wet							
Fluoranthene	ND	330	µg/Kg wet							
Fluorene	ND	330	µg/Kg wet							
Hexachlorobenzene	ND	330	µg/Kg wet							
Hexachlorobutadiene	ND	330	µg/Kg wet							
Hexachlorocyclopentadiene	ND	330	µg/Kg wet							
Hexachloroethane	ND	330	µg/Kg wet							
Indeno[1,2,3cd]pyrene	ND	330	µg/Kg wet							
Isophorone	ND	330	µg/Kg wet							
m-Dichlorobenzene	ND	330	µg/Kg wet							
Naphthalene	ND	330	µg/Kg wet							
Nitrobenzene	ND	330	µg/Kg wet							
N-Nitrosodimethylamine	ND	330	µg/Kg wet							
N-Nitrosodi-n-propylamine	ND	330	µg/Kg wet							
N-Nitrosodiphenylamine	ND	330	µg/Kg wet							
o-Chlorophenol	ND	330	µg/Kg wet							
p-Chloroaniline	ND	660	µg/Kg wet							
p-Chloro-m-cresol	ND	660	µg/Kg wet							
p-Cresol	ND	330	µg/Kg wet							
Pentachlorophenol	ND	1600	µg/Kg wet							
Phenanthrene	ND	330	µg/Kg wet							

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Semivolatiles - Quality Control**
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Sample ID: Blank (B006388-BLK1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: **Analyzed:** 09/23/2010 10:25

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Phenol	ND	330	µg/Kg wet							
Pyrene	ND	330	µg/Kg wet							
Pyridine	ND	330	µg/Kg wet							
Total Cresol	ND	330	µg/Kg wet							
Surrogate: 2,4,6-Tribromophenol	*88*		ug/mL	*100.0*		*87.9*	*13.9-145*			
Surrogate: 2-Fluorobiphenyl	*40*		ug/mL	*50.00*		*80.5*	*28.1-110*			
Surrogate: 2-Fluorophenol	*82*		ug/mL	*100.0*		*81.8*	*24.5-110*			
Surrogate: Nitrobenzene-d5	*42*		ug/mL	*50.00*		*83.0*	*33.6-110*			
Surrogate: Phenol-d5	*84*		ug/mL	*100.0*		*83.6*	*29.6-110*			
Surrogate: Terphenyl-d14	*50*		ug/mL	*50.00*		*100*	*35.8-121*			

Sample ID: Blank (B006388-BLK2) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: **Analyzed:** 09/23/2010 10:42

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Acenaphthene	ND	330	µg/Kg wet							
Acenaphthylene	ND	330	µg/Kg wet							
Anthracene	ND	330	µg/Kg wet							
Benzo[a]anthracene	ND	330	µg/Kg wet							
Benzo[a]pyrene	ND	330	µg/Kg wet							
Benzo[b]fluoranthene	ND	330	µg/Kg wet							
Benzo[g,h,i]perylene	ND	330	µg/Kg wet							
Benzo[k]fluoranthene	ND	330	µg/Kg wet							
Chrysene	ND	330	µg/Kg wet							
Dibenz[a,h]anthracene	ND	330	µg/Kg wet							
Fluoranthene	ND	330	µg/Kg wet							
Fluorene	ND	330	µg/Kg wet							
Indeno[1,2,3cd]pyrene	ND	330	µg/Kg wet							
Naphthalene	ND	330	µg/Kg wet							
Phenanthrene	ND	330	µg/Kg wet							
Pyrene	ND	330	µg/Kg wet							
Surrogate: 2,4,6-Tribromophenol	*82*		ug/mL	*100.0*		*82.4*	*13.9-145*			
Surrogate: 2-Fluorobiphenyl	*41*		ug/mL	*50.00*		*81.1*	*28.1-110*			
Surrogate: 2-Fluorophenol	*79*		ug/mL	*100.0*		*79.1*	*24.5-110*			
Surrogate: Nitrobenzene-d5	*39*		ug/mL	*50.00*		*77.7*	*33.6-110*			
Surrogate: Phenol-d5	*82*		ug/mL	*100.0*		*81.6*	*29.6-110*			
Surrogate: Terphenyl-d14	*43*		ug/mL	*50.00*		*86.2*	*35.8-121*			

Sample ID: LCS (B006388-BS1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: **Analyzed:** 09/23/2010 10:49

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene	2210	330	µg/Kg wet	3333		66.4	35.9-110		30	
1,4-Dichlorobenzene	1980	330	µg/Kg wet	3333		59.4	20-124		30	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Semivolatiles - Quality Control**
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Sample ID: LCS (B006388-BS1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: **Analyzed:** 09/23/2010 10:49

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
2,2´-oxybis(1-chloropropane)	2160	330	µg/Kg wet	3333		64.7	10-113		30	
2,4-Dinitrotoluene	2110	330	µg/Kg wet	3333		63.2	42.6-110		30	
2-Chloronaphthalene	2300	330	µg/Kg wet	3333		69.0	19-111		30	
2-Chlorophenol	2230	330	µg/Kg wet	3333		67.0	36.1-110		30	
3,3´-Dichlorobenzidine	2720	1600	µg/Kg wet	3333		81.7	50-150		30	
4-Chloro-3-methylphenol	2420	660	µg/Kg wet	3333		72.5	40.6-119		30	
4-Chlorophenyl phenyl ether	2540	330	µg/Kg wet	3333		76.2	24-113		30	
4-Nitrophenol	2250	1600	µg/Kg wet	3333		67.5	39.1-110		30	
Acenaphthene	2230	330	µg/Kg wet	3333		66.8	42.1-110		30	
Benzo[g,h,i]perylene	2520	330	µg/Kg wet	3333		75.5	50-150		30	
Benzo[k]fluoranthene	2370	330	µg/Kg wet	3333		71.1	28-144		30	
Bis(2-ethylhexyl)phthalate	2430	330	µg/Kg wet	3333		73.0	22-128		30	
Dibenz[a,h]anthracene	2450	330	µg/Kg wet	3333		73.4	26-175		30	
Diethyl phthalate	2530	330	µg/Kg wet	3333		76.0	16-119		30	
Dimethyl phthalate	2370	330	µg/Kg wet	3333		71.0	15-130		30	
Indeno[1,2,3cd]pyrene	2700	330	µg/Kg wet	3333		81.1	50-150		30	
N-Nitrosodi-n-propylamine	2090	330	µg/Kg wet	3333		62.7	38.1-110		30	
Pentachlorophenol	1750	1600	µg/Kg wet	3333		52.6	22.1-110		30	
Phenol	1790	330	µg/Kg wet	3333		53.7	38.9-110		30	
Pyrene	2730	330	µg/Kg wet	3333		82.0	44.3-116		30	
Surrogate: 2,4,6-Tribromophenol	*76*		ug/mL	*100.0*		*76.5*	*13.9-145*			
Surrogate: 2-Fluorobiphenyl	*39*		ug/mL	*50.00*		*77.7*	*28.1-110*			
Surrogate: 2-Fluorophenol	*74*		ug/mL	*100.0*		*74.3*	*24.5-110*			
Surrogate: Nitrobenzene-d5	*36*		ug/mL	*50.00*		*71.9*	*33.6-110*			
Surrogate: Phenol-d5	*68*		ug/mL	*100.0*		*68.1*	*29.6-110*			
Surrogate: Terphenyl-d14	*47*		ug/mL	*50.00*		*93.4*	*35.8-121*			

Sample ID: Matrix Spike (B006388-MS1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: 10I0753-01 **Analyzed:** 09/23/2010 14:48

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene	2920	380	µg/Kg dry	3807	ND	76.6	33.9-110		30	
1,4-Dichlorobenzene	2750	380	µg/Kg dry	3807	ND	72.3	10-134		30	
2,2´-oxybis(1-chloropropane)	2620	380	µg/Kg dry	3807	ND	68.8	10-123		30	
2,4-Dinitrotoluene	3160	380	µg/Kg dry	3807	ND	83.1	49.9-110		30	
2-Chloronaphthalene	2780	380	µg/Kg dry	3807	ND	72.9	10-121		30	
2-Chlorophenol	2880	380	µg/Kg dry	3807	ND	75.7	35.7-110		30	
3,3´-Dichlorobenzidine	3080	1800	µg/Kg dry	3807	ND	80.8	40-160		30	
4-Chloro-3-methylphenol	3300	750	µg/Kg dry	3807	ND	86.6	41.5-121		30	
4-Chlorophenyl phenyl ether	3130	380	µg/Kg dry	3807	ND	82.2	14-123		30	
4-Nitrophenol	2760	1800	µg/Kg dry	3807	ND	72.5	32.1-121		30	
Acenaphthene	3000	380	µg/Kg dry	3807	ND	78.8	39.8-110		30	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Semivolatiles - Quality Control**
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Sample ID: Matrix Spike (B006388-MS1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: 10I0753-01 **Analyzed:** 09/23/2010 14:48

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Benzo[g,h,i]perylene	2400	380	µg/Kg dry	3807	ND	63.1	40-160		30	
Benzo[k]fluoranthene	2110	380	µg/Kg dry	3807	ND	55.5	18-154		30	
Bis(2-ethylhexyl)phthalate	3540	380	µg/Kg dry	3807	ND	92.9	12-138		30	
Dibenz[a,h]anthracene	2540	380	µg/Kg dry	3807	ND	66.7	16-185		30	
Diethyl phthalate	3160	380	µg/Kg dry	3807	ND	83.0	10-129		30	
Dimethyl phthalate	2940	380	µg/Kg dry	3807	ND	77.4	10-140		30	
Indeno[1,2,3cd]pyrene	2620	380	µg/Kg dry	3807	ND	68.9	40-160		30	
N-Nitrosodi-n-propylamine	3110	380	µg/Kg dry	3807	ND	81.6	37.4-110		30	
Pentachlorophenol	2490	1800	µg/Kg dry	3807	ND	65.5	10.6-110		30	
Phenol	2680	380	µg/Kg dry	3807	ND	70.4	43.3-110		30	
Pyrene	2950	380	µg/Kg dry	3807	ND	77.6	37.6-113		30	
Surrogate: 2,4,6-Tribromophenol	*96*		ug/mL	*100.0*		*96.0*	*13.9-145*			
Surrogate: 2-Fluorobiphenyl	*43*		ug/mL	*50.00*		*86.5*	*28.1-110*			
Surrogate: 2-Fluorophenol	*86*		ug/mL	*100.0*		*85.7*	*24.5-110*			
Surrogate: Nitrobenzene-d5	*40*		ug/mL	*50.00*		*79.9*	*33.6-110*			
Surrogate: Phenol-d5	*82*		ug/mL	*100.0*		*82.1*	*29.6-110*			
Surrogate: Terphenyl-d14	*48*		ug/mL	*50.00*		*96.0*	*35.8-121*			

Sample ID: Matrix Spike Dup (B006388-MSD1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: 10I0753-01 **Analyzed:** 09/23/2010 15:13

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene	2560	380	µg/Kg dry	3807	ND	67.2	33.9-110	13.0	30	
1,4-Dichlorobenzene	2150	380	µg/Kg dry	3807	ND	56.4	10-134	24.7	30	
2,2´-oxybis(1-chloropropane)	2350	380	µg/Kg dry	3807	ND	61.7	10-123	10.8	30	
2,4-Dinitrotoluene	2770	380	µg/Kg dry	3807	ND	72.8	49.9-110	13.2	30	
2-Chloronaphthalene	2650	380	µg/Kg dry	3807	ND	69.7	10-121	4.53	30	
2-Chlorophenol	2600	380	µg/Kg dry	3807	ND	68.3	35.7-110	10.2	30	
3,3´-Dichlorobenzidine	3000	1800	µg/Kg dry	3807	ND	78.8	40-160	2.52	30	
4-Chloro-3-methylphenol	2940	750	µg/Kg dry	3807	ND	77.3	41.5-121	11.5	30	
4-Chlorophenyl phenyl ether	3110	380	µg/Kg dry	3807	ND	81.6	14-123	0.781	30	
4-Nitrophenol	2990	1800	µg/Kg dry	3807	ND	78.7	32.1-121	8.11	30	
Acenaphthene	2670	380	µg/Kg dry	3807	ND	70.2	39.8-110	11.6	30	
Benzo[g,h,i]perylene	2320	380	µg/Kg dry	3807	ND	60.9	40-160	3.50	30	
Benzo[k]fluoranthene	2130	380	µg/Kg dry	3807	ND	55.9	18-154	0.808	30	
Bis(2-ethylhexyl)phthalate	3260	380	µg/Kg dry	3807	ND	85.6	12-138	8.13	30	
Dibenz[a,h]anthracene	2490	380	µg/Kg dry	3807	ND	65.3	16-185	2.17	30	
Diethyl phthalate	3120	380	µg/Kg dry	3807	ND	81.9	10-129	1.26	30	
Dimethyl phthalate	2910	380	µg/Kg dry	3807	ND	76.3	10-140	1.34	30	
Indeno[1,2,3cd]pyrene	2650	380	µg/Kg dry	3807	ND	69.6	40-160	0.895	30	
N-Nitrosodi-n-propylamine	2390	380	µg/Kg dry	3807	ND	62.7	37.4-110	26.2	30	
Pentachlorophenol	2520	1800	µg/Kg dry	3807	ND	66.2	10.6-110	1.03	30	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

GCMS Semivolatiles - Quality Control

Batch: B006388 **Prep:** SW846 3550A

Sample ID: Matrix Spike Dup (B006388-MSD1) **Method:** SW-846 8270C **Prepped:** 09/23/2010 07:21
Source: 10I0753-01 **Analyzed:** 09/23/2010 15:13

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Phenol	2160	380	µg/Kg dry	3807	ND	56.6	43.3-110	21.7	30	
Pyrene	3030	380	µg/Kg dry	3807	ND	79.6	37.6-113	2.61	30	
Surrogate: 2,4,6-Tribromophenol	*90*		ug/mL	*100.0*		*90.0*	*13.9-145*			
Surrogate: 2-Fluorobiphenyl	*39*		ug/mL	*50.00*		*77.7*	*28.1-110*			
Surrogate: 2-Fluorophenol	*70*		ug/mL	*100.0*		*69.8*	*24.5-110*			
Surrogate: Nitrobenzene-d5	*36*		ug/mL	*50.00*		*72.9*	*33.6-110*			
Surrogate: Phenol-d5	*69*		ug/mL	*100.0*		*69.3*	*29.6-110*			
Surrogate: Terphenyl-d14	*45*		ug/mL	*50.00*		*89.4*	*35.8-121*			

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

GCMS Volatiles - Quality Control

Batch: B006194

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Volatiles - Quality Control**
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

Batch: B006194

Volatile Organic Compounds, 5035 prep, SB preserve

Sample ID: Blank (B006194-BLK1) **Method:** SW-846 8260B **Prepped:** 09/17/2010 11:58
Source: **Analyzed:** 09/17/2010 13:34

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	ND	10	µg/Kg wet							
1,1,1-Trichloroethane	ND	5.0	µg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg wet							
1,1,2-Trichloroethane	ND	5.0	µg/Kg wet							
1,1-Dichloroethane	ND	5.0	µg/Kg wet							
1,1-Dichloroethene	ND	5.0	µg/Kg wet							
1,2-Dichloroethane	ND	5.0	µg/Kg wet							
1,2-Dichloropropane	ND	5.0	µg/Kg wet							
2-Butanone	ND	10	µg/Kg wet							
2-Hexanone	ND	5.0	µg/Kg wet							
4-Methyl-2-Pentanone	ND	5.0	µg/Kg wet							
Acetone	ND	50	µg/Kg wet							
Acrolein	ND	100	µg/Kg wet							
Acrylonitrile	ND	100	µg/Kg wet							
Benzene	ND	5.0	µg/Kg wet							
Bromodichloromethane	ND	5.0	µg/Kg wet							
Bromoform	ND	5.0	µg/Kg wet							
Bromomethane	ND	10	µg/Kg wet							
Carbon Disulfide	ND	10	µg/Kg wet							
Carbon tetrachloride	ND	5.0	µg/Kg wet							
Chlorobenzene	ND	5.0	µg/Kg wet							
Chloroethane	ND	10	µg/Kg wet							
Chloroform	ND	5.0	µg/Kg wet							
Chloromethane	ND	10	µg/Kg wet							
cis-1,2-Dichloroethene	ND	5.0	µg/Kg wet							
cis-1,3-Dichloropropene	ND	5.0	µg/Kg wet							
Dibromochloromethane	ND	5.0	µg/Kg wet							
Ethylbenzene	ND	5.0	µg/Kg wet							
m,p-Xylene	ND	5.0	µg/Kg wet							
Methylene chloride	ND	20	µg/Kg wet							
Methyl-t-Butyl Ether	ND	5.0	µg/Kg wet							
o-Xylene	ND	5.0	µg/Kg wet							
Styrene	ND	5.0	µg/Kg wet							
Tetrachloroethene	ND	5.0	µg/Kg wet							
Toluene	ND	5.0	µg/Kg wet							
trans-1,2-Dichloroethene	ND	5.0	µg/Kg wet							
trans-1,3-Dichloropropene	ND	5.0	µg/Kg wet							
Trichloroethene	ND	5.0	µg/Kg wet							
Trichlorofluoromethane	ND	10	µg/Kg wet							

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Volatiles - Quality Control**
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

Batch: B006194

Sample ID: Blank (B006194-BLK1) **Method:** SW-846 8260B **Prepped:** 09/17/2010 11:58
Source: **Analyzed:** 09/17/2010 13:34

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Vinyl Acetate	ND	10	µg/Kg wet							
Vinyl chloride	ND	10	µg/Kg wet							
Total 1,2-Dichloroethene	ND	10	µg/Kg wet							
Total Xylenes	ND	5.0	µg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*55*		µg/L	*50.00*		*111*	*51.7-162*			
Surrogate: 4-Bromofluorobenzene	*50*		µg/L	*50.00*		*101*	*57.4-135*			
Surrogate: Dibromofluoromethane	*52*		µg/L	*50.00*		*105*	*63.5-139*			
Surrogate: Toluene-d8	*50*		µg/L	*50.00*		*101*	*66.6-143*			

Sample ID: LCS (B006194-BS1) **Method:** SW-846 8260B **Prepped:** 09/17/2010 11:58
Source: **Analyzed:** 09/17/2010 14:04

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	56.0		µg/L	50.00		112	73.2-127		30	
1,1,1-Trichloroethane	54.8		µg/L	50.00		110	68.4-134		30	
1,1,2,2-Tetrachloroethane	52.7		µg/L	50.00		105	67.8-115		30	
1,1,2-Trichloroethane	54.2		µg/L	50.00		108	74-114		30	
1,1-Dichloroethane	57.0		µg/L	50.00		114	70.3-121		30	
1,1-Dichloroethene	48.8		µg/L	50.00		97.6	54-119		30	
1,2-Dichloroethane	55.5		µg/L	50.00		111	65.5-129		30	
1,2-Dichloropropane	55.5		µg/L	50.00		111	68.6-124		30	
2-Butanone	51.1		µg/L	50.00		102	55.8-114		30	
2-Hexanone	49.0		µg/L	50.00		98.0	49.9-110			
4-Methyl-2-Pentanone	53.2		µg/L	50.00		106	57-114		30	
Acetone	59.6		µg/L	50.00		119	37.2-135		30	
Acrylonitrile	59.3		µg/L	50.00		119	45.3-148		30	
Benzene	53.8		µg/L	50.00		108	71.8-123		30	
Bromodichloromethane	56.2		µg/L	50.00		112	69.4-132		30	
Bromoform	43.8		µg/L	50.00		87.6	54.7-123		30	
Bromomethane	36.9		µg/L	50.00		73.9	10-143		30	
Carbon Disulfide	58.1		µg/L	50.00		116	80-159		30	
Carbon tetrachloride	55.2		µg/L	50.00		110	68.6-138		30	
Chlorobenzene	56.6		µg/L	50.00		113	80.1-122		30	
Chloroethane	52.0		µg/L	50.00		104	53.6-121		30	
Chloroform	55.9		µg/L	50.00		112	71.9-127		30	
Chloromethane	46.9		µg/L	50.00		93.9	28.3-124		30	
cis-1,2-Dichloroethene	57.5		µg/L	50.00		115	81.5-132		30	
cis-1,3-Dichloropropene	57.2		µg/L	50.00		114	74.9-117		30	
Dibromochloromethane	50.2		µg/L	50.00		100	65.1-132		30	
Ethylbenzene	56.7		µg/L	50.00		113	77.1-124		30	
m,p-Xylene	114		µg/L	100.0		114	77.4-126		30	
Methylene chloride	57.3		µg/L	50.00		115	69.2-138		30	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Volatiles - Quality Control**
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

Batch: B006194

Sample ID: LCS (B006194-BS1) **Method:** SW-846 8260B **Prepped:** 09/17/2010 11:58
Source: **Analyzed:** 09/17/2010 14:04

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Methyl-t-Butyl Ether	51.8		µg/L	50.00		104	77.8-120		30	
o-Xylene	57.3		µg/L	50.00		115	74.9-124		30	
Styrene	58.0		µg/L	50.00		116	77.7-117		30	
Tetrachloroethene	56.8		µg/L	50.00		114	81.9-127		30	
Toluene	56.0		µg/L	50.00		112	76.7-122		30	
trans-1,2-Dichloroethene	53.8		µg/L	50.00		108	67.6-126		30	
trans-1,3-Dichloropropene	63.0		µg/L	50.00		126	77.6-129		30	
Trichloroethene	54.7		µg/L	50.00		109	73.1-131		30	
Trichlorofluoromethane	61.4		µg/L	50.00		123	61.3-140		30	
Vinyl Acetate	67.3		µg/L	50.00		135	52.4-154		30	
Vinyl chloride	45.9		µg/L	50.00		91.8	48.5-124		30	
Surrogate: 1,2-Dichloroethane-d4	*51*		µg/L	*50.00*		*102*	*51.7-162*			
Surrogate: 4-Bromofluorobenzene	*52*		µg/L	*50.00*		*103*	*57.4-135*			
Surrogate: Dibromofluoromethane	*50*		µg/L	*50.00*		*99.0*	*63.5-139*			
Surrogate: Toluene-d8	*51*		µg/L	*50.00*		*103*	*66.6-143*			

Sample ID: Matrix Spike (B006194-MS1) **Method:** SW-846 8260B **Prepped:** 09/17/2010 11:58
Source: 10I0650-01 **Analyzed:** 09/17/2010 17:08

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	54.2		µg/L	50.00	ND	108	52.5-130		30	
1,1,1-Trichloroethane	55.5		µg/L	50.00	ND	111	46.3-135		30	
1,1,2,2-Tetrachloroethane	54.1		µg/L	50.00	ND	108	56-146		30	
1,1,2-Trichloroethane	53.3		µg/L	50.00	ND	107	60.2-129		30	
1,1-Dichloroethane	56.7		µg/L	50.00	ND	113	59-131		30	
1,1-Dichloroethene	51.0		µg/L	50.00	ND	102	39.1-116		30	
1,2-Dichloroethane	53.6		µg/L	50.00	ND	107	54.7-126		30	
1,2-Dichloropropane	54.8		µg/L	50.00	ND	110	62.9-118		30	
2-Butanone	51.4		µg/L	50.00	ND	103	38.1-138		30	
2-Hexanone	47.1		µg/L	50.00	ND	94.1	34-149		30	
4-Methyl-2-Pentanone	54.8		µg/L	50.00	ND	110	31.1-175		30	
Acetone	167		µg/L	50.00	198	NR	27.9-161		30	S
Acrylonitrile	64.7		µg/L	50.00	ND	129	39.4-186		30	
Benzene	53.8		µg/L	50.00	ND	108	54.8-120		30	
Bromodichloromethane	53.7		µg/L	50.00	ND	107	54.6-122		30	
Bromoform	43.4		µg/L	50.00	ND	86.8	31-122		30	
Bromomethane	31.3		µg/L	50.00	ND	62.6	10.8-142		30	
Carbon Disulfide	61.4		µg/L	50.00	ND	123	16-177		30	
Carbon tetrachloride	56.8		µg/L	50.00	ND	114	41.6-132		30	
Chlorobenzene	54.9		µg/L	50.00	ND	110	36.8-129		30	
Chloroethane	54.8		µg/L	50.00	ND	110	42.4-126		30	
Chloroform	56.9		µg/L	50.00	2.78	108	64-123		30	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Volatiles - Quality Control**
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

Batch: B006194

Sample ID: Matrix Spike (B006194-MS1) **Method:** SW-846 8260B **Prepped:** 09/17/2010 11:58
Source: 10I0650-01 **Analyzed:** 09/17/2010 17:08

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Chloromethane	49.2		µg/L	50.00	ND	98.4	45.3-143		30	
cis-1,2-Dichloroethene	56.7		µg/L	50.00	ND	113	67-126		30	
cis-1,3-Dichloropropene	52.4		µg/L	50.00	ND	105	49.9-139		30	
Dibromochloromethane	48.6		µg/L	50.00	ND	97.3	52.1-132		30	
Ethylbenzene	56.4		µg/L	50.00	ND	113	33.4-133		30	
m,p-Xylene	111		µg/L	100.0	ND	111	30.5-132		30	
Methylene chloride	73.2		µg/L	50.00	32.7	80.9	53.8-125		30	
Methyl-t-Butyl Ether	53.2		µg/L	50.00	0.750	105	41.1-144		30	
o-Xylene	55.6		µg/L	50.00	ND	111	38-123		30	
Styrene	54.9		µg/L	50.00	ND	110	16.9-131		30	
Tetrachloroethene	57.8		µg/L	50.00	ND	116	43-135		30	
Toluene	61.1		µg/L	50.00	7.60	107	35.2-143		30	
trans-1,2-Dichloroethene	55.3		µg/L	50.00	ND	111	53.7-120		30	
trans-1,3-Dichloropropene	58.5		µg/L	50.00	ND	117	42-148		30	
Trichloroethene	55.8		µg/L	50.00	ND	112	37.1-145		30	
Trichlorofluoromethane	67.8		µg/L	50.00	ND	136	40.5-141		30	
Vinyl Acetate	13.2		µg/L	50.00	ND	26.4	22.5-184		30	
Vinyl chloride	49.5		µg/L	50.00	ND	99.0	54.5-143		30	
Surrogate: 1,2-Dichloroethane-d4	*50*		µg/L	*50.00*		*101*	*51.7-162*			
Surrogate: 4-Bromofluorobenzene	*52*		µg/L	*50.00*		*104*	*57.4-135*			
Surrogate: Dibromofluoromethane	*50*		µg/L	*50.00*		*99.0*	*63.5-139*			
Surrogate: Toluene-d8	*51*		µg/L	*50.00*		*102*	*66.6-143*			

Sample ID: Matrix Spike Dup (B006194-MSD1) **Method:** SW-846 8260B **Prepped:** 09/17/2010 11:58
Source: 10I0650-01 **Analyzed:** 09/17/2010 17:38

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	51.5		µg/L	50.00	ND	103	52.5-130	5.03	30	
1,1,1-Trichloroethane	52.4		µg/L	50.00	ND	105	46.3-135	5.90	30	
1,1,2,2-Tetrachloroethane	54.8		µg/L	50.00	ND	110	56-146	1.32	30	
1,1,2-Trichloroethane	54.0		µg/L	50.00	ND	108	60.2-129	1.34	30	
1,1-Dichloroethane	55.7		µg/L	50.00	ND	111	59-131	1.89	30	
1,1-Dichloroethene	48.0		µg/L	50.00	ND	95.9	39.1-116	6.20	30	
1,2-Dichloroethane	54.5		µg/L	50.00	ND	109	54.7-126	1.70	30	
1,2-Dichloropropane	53.9		µg/L	50.00	ND	108	62.9-118	1.66	30	
2-Butanone	51.0		µg/L	50.00	ND	102	38.1-138	0.821	30	
2-Hexanone	49.3		µg/L	50.00	ND	98.6	34-149	4.59	30	
4-Methyl-2-Pentanone	53.7		µg/L	50.00	ND	107	31.1-175	2.12	30	
Acetone	158		µg/L	50.00	197	NR	27.9-161	5.89	30	S
Acrylonitrile	60.0		µg/L	50.00	ND	120	39.4-186	7.56	30	
Benzene	52.0		µg/L	50.00	ND	104	54.8-120	3.23	30	
Bromodichloromethane	53.3		µg/L	50.00	ND	107	54.6-122	0.822	30	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Volatiles - Quality Control**
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

Batch: B006194

Sample ID: Matrix Spike Dup (B006194-MSD1) **Method:** SW-846 8260B **Prepped:** 09/17/2010 11:58
Source: 10I0650-01 **Analyzed:** 09/17/2010 17:38

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Bromoform	43.0		µg/L	50.00	ND	86.0	31-122	0.995	30	
Bromomethane	33.9		µg/L	50.00	ND	67.9	10.8-142	8.06	30	
Carbon Disulfide	54.0		µg/L	50.00	ND	108	16-177	12.9	30	
Carbon tetrachloride	52.2		µg/L	50.00	ND	104	41.6-132	8.48	30	
Chlorobenzene	52.6		µg/L	50.00	ND	105	36.8-129	4.26	30	
Chloroethane	48.0		µg/L	50.00	ND	96.0	42.4-126	13.2	30	
Chloroform	54.9		µg/L	50.00	2.77	104	64-123	3.63	30	
Chloromethane	44.4		µg/L	50.00	ND	88.7	45.3-143	10.4	30	
cis-1,2-Dichloroethene	54.5		µg/L	50.00	ND	109	67-126	3.92	30	
cis-1,3-Dichloropropene	50.2		µg/L	50.00	ND	100	49.9-139	4.41	30	
Dibromochloromethane	47.6		µg/L	50.00	ND	95.3	52.1-132	2.08	30	
Ethylbenzene	53.6		µg/L	50.00	ND	107	33.4-133	5.09	30	
m,p-Xylene	106		µg/L	100.0	ND	106	30.5-132	4.84	30	
Methylene chloride	70.0		µg/L	50.00	32.6	74.9	53.8-125	4.36	30	
Methyl-t-Butyl Ether	52.9		µg/L	50.00	0.747	104	41.1-144	0.603	30	
o-Xylene	52.4		µg/L	50.00	ND	105	38-123	6.00	30	
Styrene	52.6		µg/L	50.00	ND	105	16.9-131	4.20	30	
Tetrachloroethene	52.6		µg/L	50.00	ND	105	43-135	9.58	30	
Toluene	59.1		µg/L	50.00	7.57	103	35.2-143	3.28	30	
trans-1,2-Dichloroethene	52.0		µg/L	50.00	ND	104	53.7-120	6.11	30	
trans-1,3-Dichloropropene	57.1		µg/L	50.00	ND	114	42-148	2.44	30	
Trichloroethene	53.1		µg/L	50.00	ND	106	37.1-145	5.01	30	
Trichlorofluoromethane	57.4		µg/L	50.00	ND	115	40.5-141	16.6	30	
Vinyl Acetate	6.27		µg/L	50.00	ND	12.5	22.5-184	71.1	30	RS
Vinyl chloride	43.2		µg/L	50.00	ND	86.4	54.5-143	13.6	30	
Surrogate: 1,2-Dichloroethane-d4	*52*		µg/L	*50.00*		*104*	*51.7-162*			
Surrogate: 4-Bromofluorobenzene	*52*		µg/L	*50.00*		*104*	*57.4-135*			
Surrogate: Dibromofluoromethane	*49*		µg/L	*50.00*		*97.7*	*63.5-139*			
Surrogate: Toluene-d8	*50*		µg/L	*50.00*		*101*	*66.6-143*			

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Metals - Quality Control**
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

Batch: B006234 **Prep:** SW846 3050B

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Metals - Quality Control**
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

Batch: B006234 **Prep:** SW846 3050B

Total Metals by ICP

Sample ID: Blank (B006234-BLK1) **Method:** SW-846 6010B **Prepped:** 09/20/2010 08:44
Source: **Analyzed:** 09/22/2010 19:29

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	ND	0.50	mg/Kg wet							
Barium	ND	0.10	mg/Kg wet							
Cadmium	ND	0.10	mg/Kg wet							
Chromium	ND	0.15	mg/Kg wet							
Lead	ND	0.38	mg/Kg wet							
Selenium	ND	1.5	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							

Sample ID: LCS (B006234-BS1) **Method:** SW-846 6010B **Prepped:** 09/20/2010 08:44
Source: **Analyzed:** 09/22/2010 19:56

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	228	1.0	mg/Kg wet	238.0		96.0	65.1-118		20	
Barium	239	0.20	mg/Kg wet	243.0		98.4	68.3-118		20	
Cadmium	169	0.20	mg/Kg wet	185.0		91.4	64.9-112		20	
Chromium	107	0.30	mg/Kg wet	104.0		103	65.8-124		20	
Lead	135	0.75	mg/Kg wet	154.0		87.9	62.9-110		20	
Selenium	131	3.0	mg/Kg wet	156.0		83.8	54.9-110		20	
Silver	64.2	1.0	mg/Kg wet	73.20		87.7	56.8-113		20	

Sample ID: Matrix Spike (B006234-MS1) **Method:** SW-846 6010B **Prepped:** 09/20/2010 08:44
Source: 10I0668-01 **Analyzed:** 09/22/2010 20:46

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	119	0.58	mg/Kg dry	116.9	3.03	98.8	75-125		20	
Barium	255	0.12	mg/Kg dry	128.6	6.71	193	75-125		20	S
Cadmium	12.1	0.12	mg/Kg dry	11.69	0.221	102	75-125		20	
Chromium	132	0.18	mg/Kg dry	116.9	2.33	111	75-125		20	
Lead	129	0.44	mg/Kg dry	116.9	22.3	91.3	75-125		20	
Selenium	112	1.8	mg/Kg dry	116.9	5.92	91.0	75-125		20	
Silver	11.2	0.58	mg/Kg dry	11.69	0.176	94.1	75-125		20	

Sample ID: Matrix Spike Dup (B006234-MSD1) **Method:** SW-846 6010B **Prepped:** 09/20/2010 08:44
Source: 10I0668-01 **Analyzed:** 09/22/2010 21:13

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	117	0.58	mg/Kg dry	116.9	3.03	97.2	75-125	1.64	20	
Barium	256	0.12	mg/Kg dry	128.6	6.71	194	75-125	0.321	20	S
Cadmium	11.2	0.12	mg/Kg dry	11.69	0.221	93.8	75-125	7.88	20	
Chromium	130	0.18	mg/Kg dry	116.9	2.33	109	75-125	1.56	20	
Lead	127	0.44	mg/Kg dry	116.9	22.3	89.3	75-125	1.87	20	
Selenium	110	1.8	mg/Kg dry	116.9	5.92	89.2	75-125	1.84	20	
Silver	11.1	0.58	mg/Kg dry	11.69	0.176	93.2	75-125	0.946	20	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Metals - Quality Control**
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

Batch: B006234 **Prep:** SW846 3050B

Sample ID: Post Spike (B006234-PS1) **Method:** SW-846 6010B **Prepped:** 09/20/2010 08:44
Source: 10I0668-01 **Analyzed:** 09/23/2010 12:43

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Barium	4.38		mg/Kg	2.200	0.118	194	85-115			S

Batch: B006249 **Prep:** SW-846 7471

Total Mercury by CVAA

Sample ID: Blank (B006249-BLK1) **Method:** SW-846 7471A **Prepped:** 09/20/2010 08:46
Source: **Analyzed:** 09/21/2010 13:17

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Mercury	ND	0.0010	mg/Kg wet							

Sample ID: LCS (B006249-BS1) **Method:** SW-846 7471A **Prepped:** 09/20/2010 08:46
Source: **Analyzed:** 09/21/2010 13:19

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Mercury	5.94	2.0	mg/Kg wet	7.070		84.0	41.9-122			

Sample ID: Matrix Spike (B006249-MS1) **Method:** SW-846 7471A **Prepped:** 09/20/2010 08:46
Source: 10I0668-01 **Analyzed:** 09/21/2010 13:30

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Mercury	0.117	0.042	mg/Kg dry	0.08350	0.0343	99.0	70-130		20	

Sample ID: Matrix Spike Dup (B006249-MSD1) **Method:** SW-846 7471A **Prepped:** 09/20/2010 08:46
Source: 10I0668-01 **Analyzed:** 09/21/2010 13:32

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Mercury	0.110	0.043	mg/Kg dry	0.08595	0.0343	88.4	70-130	5.94	20	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

Wet Chemistry - Quality Control

Batch: B006208

Percent Solids

Sample ID: Duplicate (B006208-DUP1) **Method:** SM2540B Rev 18 **Prepped:** 09/17/2010 15:01
Source: 10I0637-02 **Analyzed:** 09/20/2010 06:30

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Percent Solids	96.7	0.10	wt%		96.7			0.0771	20	

Microbac®

Samples Submitted to:
- [X] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664
- [ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

Chain of Custody Record

Number 98239

Instructions on back

1010637 LATA-Kemron Remediation LLC - Albuquerque, NM
Bautsch - Grav Mine Site
Deborah Griffiths
09/17/2010

Client Name: LATA-Kemron Remediation LLC	Project: Bautsch Gray Mine Site	Turnaround Time	Report Type
Address: 2424 Louisiana Blvd. NE Ste 400	Location: Galena, IL.	[X] Routine [X] working days)	[ ] Results Only [X] Level II
City, State, Zip: Albuquerque, NM. 87110	PO #	[ ] RUSH* (notify lab)	[ ] Level III [ ] Level III CLP-like
Contact: Tom Urmson	Compliance Monitoring? [ ] Yes(1) [X] No	_____ (needed by)	[ ] Level IV [ ] Level IV CLP-like
Telephone #: 859 621-7646	(1)Agency/Program		[ ] EDD

Sampled by (PRINT): Tom Urmson Sampler Signature: _____ Sampler Phone #: _____

Send Report via [ ] Mail [ ] Telephone [ ] Fax (fax #) _____ [X] e-mail (address) tomurmson@gmail.com

* **Matrix Types:** Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** **Preservative Types:** (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types ** ↓	VOCs	SVOCs	RCRA MET	PCBs					For Lab Use Only
																	1010637
BH1	S	✓			9/16/10	12:30	5	VARIOUS	✓	✓	✓	✓					01
BH2	S	✓			9/16/10	12:40	5	VARIOUS	✓	✓	✓	✓					02

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive Sample Disposition [ ] Dispose as appropriate [ ] Return [ ] Archive

Comments	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
	Tom Urmson			
	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
	Relinquished By (signature)	Date/Time	Received for Lab By (signature)	Date/Time
Sample temperature upon receipt in degrees C = 4°C				9/17/10 1000

rev. 11/04/04

Page ____ of ____

ATTACHMENT E
HYDROGEOLOGICAL MODELING RESULTS

BAUTSCH-GRAY MINE SITE
JO DAVIESS COUNTY, ILLINOIS

HYDROLOGIC MODELING SUMMARY AND RESULTS

The hydrologic study performed at the Bautsch-Gray Mine Site began by identifying the existing conditions of the site. A topographic map was provided by U.S. EPA FIELDS showing the general topographic features that were used to determine locations of low spots, watersheds, and blown out embankments. Areas tributary to the site were determined by using USGS 7.5 minute topographic maps. The boundaries were delineated and included in the existing conditions hydrologic model. The runoff curve numbers were developed based upon the aerial photos showing open areas without vegetation, dense forests, and some areas of grass range. All hydrologic soil groups were determined to be in either the C or D groups. The SCS hydrologic software of TR-20 was used to perform the calculations. A Huff 3rd Quartile distribution unit hydrograph was used with a rainfall depth of 7.36 inches over a 24 hour event to establish the 100-year, 24-hour flows.

The proposed plan for the site was to attenuate the peak flow of water from the site by installing a series of detention facilites, thereby reducing the flow of sediment across Blackjack Road. These detention facilities, with sedimentation basins below the outlet of the pond, allowed the "first flush" of water from a storm to settle out some portion of the sediment from the runoff before being released from the detention facility through an outlet control structure. The ponds were sized to an allowable release rate of 1.0 cfs/acre, resulting in a peak discharge from the site of approximately 37 cfs during the 100-year, 24-hour storm event. All the "clean" areas upstream of the site were routed through a ditch on the upstream property boundary to the property to the north. This ditch was lined with HDPE and stone in areas of high velocity, but otherwise was planted with natural grasses to prevent erosion during minor storm events.

The detention facilities each contained a stand pipe with perforations, designed to reduce the velocity of water entering the outlet control structure. Each was sized to handle small storm events in the perforations with larger events flowing through the top of the stand pipe. Riprap was installed around both the inlet and outlet of these stand pipes to prevent the erosion of the existing tailings on site.

As-built drawings show that the constructed embankments and ponds on site in conjunction with the outlet control structures provide adequate storage and peak flow attenuation to meet the project goals of 1.0 cfs/acre of flow during the 100-year, 24-hour storm event.

WinTR-20 Printed Page File Beginning of Input Data List
C:\Users\coninxb\Documents\TR 20 files\BGUSEPA08262011.inp

```
WinTR-20: Version 1.11                  0         0         .1        0
BAUTSCH-GRAY AS-BUILT CONDITIONS
BAUTSCH-GRAY SUPERFUND SITE - START PROGRAM - USEPA - GALENA, IL 10172011

SUB-AREA:
          SUBBASIN2 REACH 2             0.044286  94.7
                    SHEET     100.      0.13                H
                    SHALLOW   1397.     0.10                U
                    CHANNEL   1366.     0.045     0.025     10.5      16.2
          SUBBASIN1 REACH 1             0.012139  93.
                    SHEET     100.      0.2                 H
                    SHALLOW   275.      0.02                U
                    CHANNEL   365.      0.021     0.025     32.       58.
          SUBBASIN 5REACH 5             0.029013  90.6
                    SHEET     100.      0.06                H
                    SHALLOW   1202.     0.15                U
                    CHANNEL   586.      0.03      0.025     7.5       32.1
          SUBBASIN6 REACH 6             0.0037812598.
                    SHEET     100.      0.025               B
                    SHALLOW   637.      0.10                U

STREAM REACH:
          REACH 1   OUTLET              POND1
          REACH 2   REACH 1             POND 2
          REACH 5   REACH 1             POND 5
          REACH 6   OUTLET              POND 6


STORM ANALYSIS:
          100YR-24HR          0.        7.36      HUFF3RD24H2         3.11


STRUCTURE RATING:
          POND 2    665.
                    665.      0.0       00.0
                    665.8     0.00001   0.282
                    666.      0.73      2.183
                    667.      6.08      2.688
                    668.      14.00     3.446
                    669.      21.74     4.508
                    670.      24.96     5.798
          POND1     648.
                    648.      0.        0.
                    649.      0.00001   0.379
                    650.      0.00002   0.903
                    651.      0.00003   1.537
                    652.      34.83     2.283
                    654.      60.33     4.066
          POND 5    678.
                    678.      0.0       0.
                    679.      0.00001   0.202
                    679.4     0.00002   1.269
                    680.      0.39      2.107
                    681.      1.75      2.736
                    682.      5.63      3.528
                    683.      7.52      4.488
                    684.      8.87      5.637
                    685.      9.97      6.979
                    686.      10.93     8.490
                    687.      11.79     10.164
          POND 6    652.
                    652.      0.        0.
                    653.      0.00001   0.0623
                    654.      0.00002   0.159
                    655.      0.32      0.295
                    656.      1.96      0.479



RAINFALL DISTRIBUTION:
          HUFF3RD24H          1.2
                    0.        .03       .06       .09       .12
                    .15       .19       .23       .27       .32
                    .38       .45       .57       .70       .79
                    .85       .89       .92       .95       .97
                    1.        1.        1.        1.        1.
```

GLOBAL OUTPUT:
3 .1 YNNNN YNNNNN

VERIFICATION:
DATA PREP Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y
PROCESSINGY Y Y Y Y Y Y Y Y

WinTR-20 Printed Page File End of Input Data List

BAUTSCH-GRAY AS-BUILT CONDITIONS
BAUTSCH-GRAY SUPERFUND SITE - START PROGRAM - USEPA - GALENA, IL 10172011

Name of printed page file:
C:\Users\coninxb\Documents\TR 20 files\BGUSEPA08262011.out

STORM 100YR-24HR

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Peak Flow Elevation (ft)	Peak Flow Time (hr)	Peak Flow Rate (cfs)	Peak Flow Rate (csm)
SUBBASIN2	0.044		6.728		15.59	22.543	509.03
REACH 2	0.044	Upstream	6.728		15.59	22.543	509.03
REACH 2	0.044	Downstream	6.497	668.70	15.79	19.394	437.94
SUBBASIN1	0.012		6.526		15.59	6.134	505.34
SUBBASIN 5	0.029		6.246		15.59	14.445	497.87
REACH 5	0.029	Upstream	6.246		15.59	14.445	497.87
REACH 5	0.029	Downstream	5.285	683.31	17.08	7.940	273.66
REACH 1	0.085	Upstream	6.089		15.63	32.848	384.47
REACH 1	0.085	Downstream	5.752	651.92	15.74	32.178	376.63
SUBBASIN6	0.004		7.116		15.60	1.943	513.77
REACH 6	0.004	Upstream	7.116		15.60	1.943	513.77
REACH 6	0.004	Downstream	6.095	655.86	15.66	1.726	456.52
OUTLET	0.089		5.766		15.73	33.893	379.88

Area or Reach Identifier	Drainage Area (sq mi)	Alternate 100YR-24HR (cfs)	Peak Flow by Storm (cfs)	(cfs)	(cfs)	(cfs)
SUBBASIN2	0.044	22.543				
SUBBASIN1	0.012	6.134				
SUBBASIN 5	0.029	14.445				
SUBBASIN6	0.004	1.943				
REACH 1	0.085	32.848				
DOWNSTREAM		32.178				
REACH 2	0.044	22.543				
DOWNSTREAM		19.394				
REACH 5	0.029	14.445				
DOWNSTREAM		7.940				
REACH 6	0.004	1.943				
DOWNSTREAM		1.726				
OUTLET	0.089	33.893				

ATTACHMENT F
AIR SAMPLING RESULTS

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001;AIHA 101160; NVLAP LabCode 101202-

July 27, 2011

Weston Solutions
20 North Wacker Drive
Suite 1210
Chicago, IL 60606
Telephone: (312) 424-3339
Fax: (312) 424-3330

RE: Bautsch-Gray Mine RV, Galena, IL STAT Project No: 11070716

Dear Lisa Graczyk:

STAT Analysis received 5 samples for the referenced project on 7/20/2011 11:15:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met AIHA, EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. Sample acceptance criteria has been met unless noted in the Case Narrative or Sample Receipt Checklist. If required, an estimate of uncertainty for the analyses can be provided. Sample results have not been corrected for contamination based on field blank or other analytical blank, unless noted in the case narrative.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

Catia Giannini
Project Manager

STAT Analysis Corporation

Date: July 27, 2011

Client: Weston Solutions
Project: Bautsch-Gray Mine RV, Galena, IL
Lab Order: 11070716

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
11070716-001A	BG-AirF-071911	913 L	7/19/2011 4:33:00 PM	7/20/2011
11070716-002A	BG-AirI-071911	898 L	7/19/2011 4:28:00 PM	7/20/2011
11070716-003A	BG-AirJ-071911	862 L	7/19/2011 4:36:00 PM	7/20/2011
11070716-004A	BG-AirA-071911	932 L	7/19/2011 4:38:00 PM	7/20/2011
11070716-005A	MB-Air-071911		7/19/2011	7/20/2011

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: July 27, 2011
Date Printed: July 27, 2011

Client: Weston Solutions
Project: Bautsch-Gray Mine RV, Galena, IL **Lab Order:** 11070716

Lab ID: 11070716-001 **Collection Date:** 7/19/2011 4:33:00 PM
Client Sample ID BG-AirF-071911 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300M**			Prep Date: **7/26/2011**		Analyst: **JG**
Arsenic	ND	1.1		µg/m³	10	7/26/2011
Lead	ND	1.1		µg/m³	10	7/26/2011
Particulates in Air	**NIOSH0500**			Prep Date: **7/20/2011**		Analyst: **JP**
Particulates in Air	0.44	0.22	*	mg/m³	1	7/21/2011

Lab ID: 11070716-002 **Collection Date:** 7/19/2011 4:28:00 PM
Client Sample ID BG-AirI-071911 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300M**			Prep Date: **7/26/2011**		Analyst: **JG**
Arsenic	ND	1.1		µg/m³	10	7/26/2011
Lead	ND	1.1		µg/m³	10	7/26/2011
Particulates in Air	**NIOSH0500**			Prep Date: **7/20/2011**		Analyst: **JP**
Particulates in Air	1.4	0.22	*	mg/m³	1	7/21/2011

Lab ID: 11070716-003 **Collection Date:** 7/19/2011 4:36:00 PM
Client Sample ID BG-AirJ-071911 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300M**			Prep Date: **7/26/2011**		Analyst: **JG**
Arsenic	ND	1.2		µg/m³	10	7/26/2011
Lead	ND	1.2		µg/m³	10	7/26/2011
Particulates in Air	**NIOSH0500**			Prep Date: **7/20/2011**		Analyst: **JP**
Particulates in Air	ND	0.23	*	mg/m³	1	7/21/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: July 27, 2011
Date Printed: July 27, 2011

Client: Weston Solutions
Project: Bautsch-Gray Mine RV, Galena, IL **Lab Order:** 11070716

Lab ID: 11070716-004 **Collection Date:** 7/19/2011 4:38:00 PM
Client Sample ID BG-AirA-071911 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300M**			Prep Date: **7/26/2011**		Analyst: **JG**
Arsenic	ND	1.1		µg/m³	10	7/26/2011
Lead	ND	1.1		µg/m³	10	7/26/2011
Particulates in Air	**NIOSH0500**			Prep Date: **7/20/2011**		Analyst: **JP**
Particulates in Air	ND	0.21	*	mg/m³	1	7/21/2011

Lab ID: 11070716-005 **Collection Date:** 7/19/2011
Client Sample ID MB-Air-071911 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300M**			Prep Date: **7/26/2011**		Analyst: **JG**
Arsenic	ND	1		µg/filter	10	7/26/2011
Lead	ND	1		µg/filter	10	7/26/2011
Particulates in Air	**NIOSH0500**			Prep Date: **7/20/2011**		Analyst: **JP**
Particulates in Air	ND	0.2	*	mg/filter	1	7/21/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com AIHA, NVLAP and NELAP accredited

CHAIN OF CUSTODY RECORD

Nº: 833616 Page: 1 of 1

Company: WESTON SOLUTIONS
Project Number: Client Tracking No.:
Project Name: BANTSCH - GRAY MINE RV
Project Location: GALENA, IL
Sampler(s): JEFF BRYNIARSKI
Report To: LISA GRACZYK Phone:
JEFF BRYNIARSKI Fax:
QC Level: 1 2 X 3 4 e-mail:

P.O. No.:
Quote No.:

Turn Around:
Results Needed: am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	Lead & Arsenic	Total Particulates	Total Volume Remarks	Lab No.:
BG-AIR F-071911	07/19/11	09:22-16:33	AIR		X	A	1	X	X	913 L	001
BG-AIR I-071911	"	09:33-16:28	"		"	"	"	X	X	898 L	002
BG-AIR J-071911	"	09:45-16:36	"		"	"	"	X	X	862 L	003
BG-AIR A-071911	"	09:26-16:38	"		"	"	"	X	X	932 L	004
MB-AIR-071911	↓	—	↓		↓	↓	↓	X	X	— L	005

Relinquished by: (Signature) Date/Time: 07/19/11 18:30
Received by: (Signature) Date/Time: 7/20/11 1115
Relinquished by: (Signature) Date/Time:
Received by: (Signature) Date/Time:
Relinquished by: (Signature) Date/Time:
Received by: (Signature) Date/Time:

Comments:

Preservation Code: A = None B = HNO_3 C = NaOH
D = H_2SO_4 E = HCl F = 5035/EnCore G = Other

Laboratory Work Order No.: 1107071G

Received on Ice: Yes ? No ✓
Temperature: Ambient

STAT Analysis Corporation

Sample Receipt Checklist

Client Name WESTON CHICAGO

Date and Time Received: 7/20/2011 11:15:00 AM

Work Order Number 11070716

Received by: CDF

Checklist completed by: _____ 7/20/11
Signature | Date

Reviewed by: CG 7/21/11
Initials | Date

Matrix: Carrier name Client Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑	
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels/containers?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature ambient °C	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐	
Water - Samples pH checked?	Yes ☐	No ☐	Checked by: _____	
Water - Samples properly preserved?	Yes ☐	No ☐	pH Adjusted? _____	

Any No response must be detailed in the comments section below.

Comments: _____

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

STAT **Analysis Corporation**

PREP BATCH REPORT

Prep Start Date: **7/26/2011 1:17:00 P**
Prep End Date:

Prep Batch **57519** Prep Code: **M_AIR_PR** Technician: **JMS**

Prep Factor Units: **mL /**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IRBA1 7/26/11			1	0	0	0.01	0.010	7/26/2011	7/26/2011
IMBA1 7/26/11			1	0	0	0.01	0.010	7/26/2011	7/26/2011
ILCSA1 7/26/11			1	0	0	0.01	0.010	7/26/2011	7/26/2011
ILCSDA1 7/26/11			1	0	0	0.01	0.010	7/26/2011	7/26/2011
11070716-001A	Air		0.913	0	0	0.01	0.011	7/26/2011	7/26/2011
11070716-002A	Air		0.898	0	0	0.01	0.011	7/26/2011	7/26/2011
11070716-003A	Air		0.862	0	0	0.01	0.012	7/26/2011	7/26/2011
11070716-004A	Air		0.932	0	0	0.01	0.011	7/26/2011	7/26/2011
11070716-005A	Air		1	0	0	0.01	0.010	7/26/2011	7/26/2011
11070744-001A	Air		0.96	0	0	0.01	0.010	7/26/2011	7/26/2011
11070744-002A	Air		0.926	0	0	0.01	0.011	7/26/2011	7/26/2011
11070744-003A	Air		1	0	0	0.01	0.010	7/26/2011	7/26/2011
11070744-004A	Air		1	0	0	0.01	0.010	7/26/2011	7/26/2011
11070820-001A	Air		0.92	0	0	0.01	0.011	7/26/2011	7/26/2011
11070820-002A	Air		0.92	0	0	0.01	0.011	7/26/2011	7/26/2011
11070820-003A	Air		1	0	0	0.01	0.010	7/26/2011	7/26/2011
11070820-004A	Air		1	0	0	0.01	0.010	7/26/2011	7/26/2011
11070962-001A	Air		0.94	0	0	0.01	0.011	7/26/2011	7/26/2011
11070962-002A	Air		0.936	0	0	0.01	0.011	7/26/2011	7/26/2011
11070962-003A	Air		1	0	0	0.01	0.010	7/26/2011	7/26/2011
11070962-004A	Air		1	0	0	0.01	0.010	7/26/2011	7/26/2011

CLIENT: Weston Solutions
Work Order: 11070716
Project: Bautsch-Gray Mine RV, Galena, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 57519

Sample ID: **IRBA1 7/26/11**	SampType: **MBLK**	TestCode: **M_AIR**	Units: **µg**	Prep Date: **7/26/2011**	Run ID: **ICPMS-2_110726A**
Client ID: **ZZZZZ**	Batch ID: **57519**	TestNo: **N7300M**		Analysis Date: **7/26/2011**	SeqNo: **1965352**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0111	1.0									J
Lead	0.057	1.0									J

Sample ID: **IMBA1 7/26/11**	SampType: **MBLK**	TestCode: **M_AIR**	Units: **µg/filter**	Prep Date: **7/26/2011**	Run ID: **ICPMS-2_110726A**
Client ID: **ZZZZZ**	Batch ID: **57519**	TestNo: **N7300M**		Analysis Date: **7/26/2011**	SeqNo: **1965353**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0096	1.0									J
Lead	0.0528	1.0									J

Sample ID: **ILCSA1 7/26/11**	SampType: **LCS**	TestCode: **M_AIR**	Units: **µg/filter**	Prep Date: **7/26/2011**	Run ID: **ICPMS-2_110726A**
Client ID: **ZZZZZ**	Batch ID: **57519**	TestNo: **N7300M**		Analysis Date: **7/26/2011**	SeqNo: **1965354**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.632	1.0	5	0.0096	92.4	80	120	0	0		
Lead	4.855	1.0	5	0.0528	96	80	120	0	0		

Sample ID: **ILCSDA1 7/26/11**	SampType: **LCSD**	TestCode: **M_AIR**	Units: **µg/filter**	Prep Date: **7/26/2011**	Run ID: **ICPMS-2_110726A**
Client ID: **ZZZZZ**	Batch ID: **57519**	TestNo: **N7300M**		Analysis Date: **7/26/2011**	SeqNo: **1965355**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.67	1.0	5	0.0096	93.2	80	120	4.632	0.817	20	
Lead	4.924	1.0	5	0.0528	97.4	80	120	4.855	1.41	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blank
E - Value above quantitation range

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001;AIHA 101160; NVLAP LabCode 101202-0

October 29, 2010

Weston Solutions
20 North Wacker Drive
Suite 1210
Chicago, IL 60606
Telephone: (312) 424-3339
Fax: (312) 424-3330

RE: Bautsch Gray Maine RV, Galena, IL STAT Project No: 10100747

Dear Lisa Graczyk:

STAT Analysis received 13 samples for the referenced project on 10/22/2010 9:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met AIHA, EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. Sample acceptance criteria has been met unless noted in the Case Narrative or Sample Receipt Checklist. If required, an estimate of uncertainty for the analyses can be provided. Sample results have not been corrected for contamination based on field blank or other analytical blank, unless noted in the case narrative.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

Catia Giannini
Project Manager

STAT Analysis Corporation

Date: October 29, 2010

Client: Weston Solutions
Project: Bautsch Gray Maine RV, Galena, IL
Lab Order: 10100747

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10100747-001A	BG-Air E-101910	1500 L	10/19/2010	10/22/2010
10100747-002A	BG-Air F-101910	1512 L	10/19/2010	10/22/2010
10100747-003A	BG-Air H-101910	1476 L	10/19/2010	10/22/2010
10100747-004A	BG-Air I-101910	1209 L	10/19/2010	10/22/2010
10100747-005A	BG-Air E-102010	1695 L	10/20/2010	10/22/2010
10100747-006A	BG-Air F-102010	1497 L	10/20/2010	10/22/2010
10100747-007A	BG-Air H-102010	1209 L	10/20/2010	10/22/2010
10100747-008A	BG-Air I-102010	1635 L	10/20/2010	10/22/2010
10100747-009A	BG-Air E-102110	1593 L	10/21/2010	10/22/2010
10100747-010A	BG-Air F-102110	1132 L	10/21/2010	10/22/2010
10100747-011A	BG-Air G-102110	1428 L	10/21/2010	10/22/2010
10100747-012A	BG-Air I-102110	1584 L	10/21/2010	10/22/2010
10100747-013A	BG-Air Blank 2-102110		10/21/2010	10/22/2010

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: October 29, 2010
Date Printed: October 29, 2010

Client: Weston Solutions
Project: Bautsch Gray Maine RV, Galena, IL **Lab Order:** 10100747

Lab ID: 10100747-001 **Collection Date:** 10/19/2010
Client Sample ID BG-Air E-101910 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **10/28/2010**		Analyst: **JG**
Arsenic	ND	0.67		µg/m³	10	10/28/2010
Lead	ND	0.67		µg/m³	10	10/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **10/22/2010**		Analyst: **JP**
Particulates in Air	0.2	0.13	*	mg/m³	1	10/25/2010

Lab ID: 10100747-002 **Collection Date:** 10/19/2010
Client Sample ID BG-Air F-101910 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **10/28/2010**		Analyst: **JG**
Arsenic	ND	0.66		µg/m³	10	10/28/2010
Lead	ND	0.66		µg/m³	10	10/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **10/22/2010**		Analyst: **JP**
Particulates in Air	ND	0.13	*	mg/m³	1	10/25/2010

Lab ID: 10100747-003 **Collection Date:** 10/19/2010
Client Sample ID BG-Air H-101910 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **10/28/2010**		Analyst: **JG**
Arsenic	ND	0.68		µg/m³	10	10/28/2010
Lead	ND	0.68		µg/m³	10	10/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **10/22/2010**		Analyst: **JP**
Particulates in Air	ND	0.14	*	mg/m³	1	10/25/2010

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: October 29, 2010
Date Printed: October 29, 2010

Client: Weston Solutions
Project: Bautsch Gray Maine RV, Galena, IL **Lab Order:** 10100747

Lab ID: 10100747-004 **Collection Date:** 10/19/2010
Client Sample ID BG-Air I-101910 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **10/28/2010**		Analyst: **JG**
Arsenic	ND	0.83		µg/m³	10	10/28/2010
Lead	ND	0.83		µg/m³	10	10/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **10/22/2010**		Analyst: **JP**
Particulates in Air	ND	0.17	*	mg/m³	1	10/25/2010

Lab ID: 10100747-005 **Collection Date:** 10/20/2010
Client Sample ID BG-Air E-102010 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **10/28/2010**		Analyst: **JG**
Arsenic	ND	0.59		µg/m³	10	10/28/2010
Lead	ND	0.59		µg/m³	10	10/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **10/22/2010**		Analyst: **JP**
Particulates in Air	ND	0.12	*	mg/m³	1	10/25/2010

Lab ID: 10100747-006 **Collection Date:** 10/20/2010
Client Sample ID BG-Air F-102010 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **10/28/2010**		Analyst: **JG**
Arsenic	ND	0.67		µg/m³	10	10/28/2010
Lead	ND	0.67		µg/m³	10	10/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **10/22/2010**		Analyst: **JP**
Particulates in Air	ND	0.13	*	mg/m³	1	10/25/2010

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: October 29, 2010
Date Printed: October 29, 2010

Client: Weston Solutions
Project: Bautsch Gray Maine RV, Galena, IL **Lab Order:** 10100747

Lab ID: 10100747-007 **Collection Date:** 10/20/2010
Client Sample ID BG-Air H-102010 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **10/28/2010**		Analyst: **JG**
Arsenic	ND	0.83		µg/m³	10	10/28/2010
Lead	ND	0.83		µg/m³	10	10/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **10/22/2010**		Analyst: **JP**
Particulates in Air	ND	0.17	*	mg/m³	1	10/25/2010

Lab ID: 10100747-008 **Collection Date:** 10/20/2010
Client Sample ID BG-Air I-102010 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **10/28/2010**		Analyst: **JG**
Arsenic	ND	0.61		µg/m³	10	10/28/2010
Lead	ND	0.61		µg/m³	10	10/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **10/22/2010**		Analyst: **JP**
Particulates in Air	ND	0.12	*	mg/m³	1	10/25/2010

Lab ID: 10100747-009 **Collection Date:** 10/21/2010
Client Sample ID BG-Air E-102110 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **10/28/2010**		Analyst: **JG**
Arsenic	ND	0.63		µg/m³	10	10/28/2010
Lead	ND	0.63		µg/m³	10	10/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **10/22/2010**		Analyst: **JP**
Particulates in Air	ND	0.13	*	mg/m³	1	10/25/2010

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: October 29, 2010
Date Printed: October 29, 2010

Client: Weston Solutions
Project: Bautsch Gray Maine RV, Galena, IL **Lab Order:** 10100747

Lab ID: 10100747-010 **Collection Date:** 10/21/2010
Client Sample ID BG-Air F-102110 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **10/28/2010**		Analyst: **JG**
Arsenic	ND	0.88		µg/m³	10	10/28/2010
Lead	ND	0.88		µg/m³	10	10/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **10/22/2010**		Analyst: **JP**
Particulates in Air	ND	0.18	*	mg/m³	1	10/25/2010

Lab ID: 10100747-011 **Collection Date:** 10/21/2010
Client Sample ID BG-Air G-102110 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **10/28/2010**		Analyst: **JG**
Arsenic	ND	0.7		µg/m³	10	10/28/2010
Lead	ND	0.7		µg/m³	10	10/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **10/22/2010**		Analyst: **JP**
Particulates in Air	ND	0.14	*	mg/m³	1	10/25/2010

Lab ID: 10100747-012 **Collection Date:** 10/21/2010
Client Sample ID BG-Air I-102110 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **10/28/2010**		Analyst: **JG**
Arsenic	ND	0.63		µg/m³	10	10/28/2010
Lead	ND	0.63		µg/m³	10	10/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **10/22/2010**		Analyst: **JP**
Particulates in Air	ND	0.13	*	mg/m³	1	10/25/2010

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: October 29, 2010
Date Printed: October 29, 2010

Client: Weston Solutions
Project: Bautsch Gray Maine RV, Galena, IL **Lab Order:** 10100747

Lab ID: 10100747-013 **Collection Date:** 10/21/2010
Client Sample ID BG-Air Blank 2-102110 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **10/28/2010**		Analyst: **JG**
Arsenic	ND	1		µg/filter	10	10/28/2010
Lead	ND	1		µg/filter	10	10/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **10/22/2010**		Analyst: **JP**
Particulates in Air	ND	0.2	*	mg/filter	1	10/25/2010

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com AIHA, NVLAP and NELAP accredited

CHAIN OF CUSTODY RECORD

No.: 833614 Page: 1 of 1

Company: Weston Solutions
Project Number: Client Tracking No.:
Project Name: British Gray Mine RV
Project Location: Galena, IL
Sampler(s): Jeff Bryniarski (708 284 2490)
Report To: Lisa Graczyk Phone: Fax: e-mail:
QC Level: 1 ___ 2 X 3 ___ 4 ___

P.O. No.:
Quote No.:

Turn Around: Standard
Results Needed: am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	Lead & Arsenic (NIOSH 7300)	Total Particulates (NIOSH 500)	Total Volume (L)	Lab No.:
BG-AIR E - 101910	10/19/10	8:00	AIR	X		A	1	X	X	1500	001
BG-AIR F - 101910	↓	↓	↓	↓		↓	↓	X	X	1512	002
BG-AIR H - 101910	↓	↓	↓	↓		↓	↓	X	X	1476	003
BG-AIR I - 101910	↓	↓	↓	↓		↓	↓	X	X	1209	004
BG-AIR E - 102010	10/20/10	↓	↓	↓		↓	↓	X	X	1695	005
BG-AIR F - 102010	↓	↓	↓	↓		↓	↓	X	X	1497	006
BG-AIR H - 102010	↓	↓	↓	↓		↓	↓	X	X	1209	007
BG-AIR I - 102010	↓	↓	↓	↓		↓	↓	X	X	1035	008
BG-AIR E - 102110	10/21/10	↓	↓	↓		↓	↓	X	X	1543	009
BG-AIR F - 102110	↓	↓	↓	↓		↓	↓	X	X	1131	010
BG-AIR G - 102110	↓	↓	↓	↓		↓	↓	X	X	1428	011
BG-AIR I - 102110	↓	↓	↓	↓		↓	↓	X	X	1584	012
BG-AIR BLANK2 102110	↓	—	↓	↓		↓	↓	X	X	N.A.	013

Relinquished by: (Signature) [signature] Date/Time: 10/21/10 8:00
Received by: (Signature) [signature] Date/Time: 10/22/10 930
Relinquished by: (Signature) Date/Time:
Received by: (Signature) Date/Time:
Relinquished by: (Signature) Date/Time:
Received by: (Signature) Date/Time:

Comments:

Preservation Code: A = None B = HNO_3 C = NaOH D = H_2SO_4 E = HCl F = 5035/EnCore G = Other

Laboratory Work Order No.: 10100747

Received on Ice: Yes ☐ No ☒

Temperature: Ambient

STAT Analysis Corporation

Sample Receipt Checklist

Client Name WESTON CHICAGO

Date and Time Received: 10/22/2010 9:30:00 AM

Work Order Number 10100747

Received by: CDF

Checklist completed by: Signature 10/22/10 Date

Reviewed by: CG Initials 10/25/10 Date

Matrix:

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑	
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels/containers?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature A,bient °C	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐	
Water - Samples pH checked?	Yes ☐	No ☐	Checked by:	
Water - Samples properly preserved?	Yes ☐	No ☐	pH Adjusted?	

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted: Date contacted: Contacted by:

Response:

STAT Analysis Corporation

PREP BATCH REPORT

Prep Start Date: **10/28/2010 4:10:00**
Prep End Date: **10/28/2010 4:30:00**

Prep Batch **52517** Prep Code: **M_AIR_PR** Technician: **JMS**

Prep Factor Units: **mL /**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IRBA1 10/28/10			1	0	0	0.01	0.010	10/28/2010	10/28/2010
IMBA1 10/28/10			1	0	0	0.01	0.010	10/28/2010	10/28/2010
ILCSA1 10/28/10			1	0	0	0.01	0.010	10/28/2010	10/28/2010
ILCSDA1 10/28/10			1	0	0	0.01	0.010	10/28/2010	10/28/2010
10100747-001A	Air		1.5	0	0	0.01	0.007	10/28/2010	10/28/2010
10100747-002A	Air		1.512	0	0	0.01	0.007	10/28/2010	10/28/2010
10100747-003A	Air		1.476	0	0	0.01	0.007	10/28/2010	10/28/2010
10100747-004A	Air		1.209	0	0	0.01	0.008	10/28/2010	10/28/2010
10100747-005A	Air		1.695	0	0	0.01	0.006	10/28/2010	10/28/2010
10100747-006A	Air		1.497	0	0	0.01	0.007	10/28/2010	10/28/2010
10100747-007A	Air		1.209	0	0	0.01	0.008	10/28/2010	10/28/2010
10100747-008A	Air		1.635	0	0	0.01	0.006	10/28/2010	10/28/2010
10100747-009A	Air		1.593	0	0	0.01	0.006	10/28/2010	10/28/2010
10100747-010A	Air		1.132	0	0	0.01	0.009	10/28/2010	10/28/2010
10100747-011A	Air		1.428	0	0	0.01	0.007	10/28/2010	10/28/2010
10100747-012A	Air		1.584	0	0	0.01	0.006	10/28/2010	10/28/2010
10100747-013A	Air		1	0	0	0.01	0.010	10/28/2010	10/28/2010

CLIENT: Weston Solutions
Work Order: 10100747
Project: Bautsch Gray Maine RV, Galena, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 52517

Sample ID	IRBA1 10/28/10	SampType:	MBLK	TestCode:	M_AIR	Units:	µg	Prep Date:	10/28/2010	Run ID:	ICPMS_101028B
Client ID:	ZZZZZ	Batch ID:	52517	TestNo:	N7300			Analysis Date:	10/28/2010	SeqNo:	1786318

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	1.0									
Lead	ND	1.0									

Sample ID	IMBA1 10/28/10	SampType:	MBLK	TestCode:	M_AIR	Units:	µg/filter	Prep Date:	10/28/2010	Run ID:	ICPMS_101028B
Client ID:	ZZZZZ	Batch ID:	52517	TestNo:	N7300			Analysis Date:	10/28/2010	SeqNo:	1786407

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	1.0									
Lead	0.0118	1.0									J

Sample ID	ILCSA1 10/28/10	SampType:	LCS	TestCode:	M_AIR	Units:	µg/filter	Prep Date:	10/28/2010	Run ID:	ICPMS_101028B
Client ID:	ZZZZZ	Batch ID:	52517	TestNo:	N7300			Analysis Date:	10/28/2010	SeqNo:	1786321

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.628	1.0	5	0	92.6	80	120	0	0		
Lead	4.823	1.0	5	0.0118	96.2	80	120	0	0		

Sample ID	ILCSDA1 10/28/10	SampType:	LCSD	TestCode:	M_AIR	Units:	µg/filter	Prep Date:	10/28/2010	Run ID:	ICPMS_101028B
Client ID:	ZZZZZ	Batch ID:	52517	TestNo:	N7300			Analysis Date:	10/28/2010	SeqNo:	1786322

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.654	1.0	5	0	93.1	80	120	4.628	0.560	20	
Lead	4.891	1.0	5	0.0118	97.6	80	120	4.823	1.40	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blank
E - Value above quantitation range

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001;AIHA 101160; NVLAP LabCode 101202-0

September 29, 2010

Weston Solutions
20 North Wacker Drive
Suite 1210
Chicago, IL 60606
Telephone: (312) 424-3339
Fax: (312) 424-3330

RE: Bautsch-Gray Mine RV, Galena, IL STAT Project No: 10090688

Dear Lisa Graczyk:

STAT Analysis received 9 samples for the referenced project on 9/24/2010 9:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met AIHA, EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. Sample acceptance criteria has been met unless noted in the Case Narrative or Sample Receipt Checklist. If required, an estimate of uncertainty for the analyses can be provided. Sample results have not been corrected for contamination based on field blank or other analytical blank, unless noted in the case narrative.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

Catia Giannini
Project Manager

STAT Analysis Corporation

Date: September 29, 2010

Client: Weston Solutions
Project: Bautsch-Gray Mine RV, Galena, IL
Lab Order: 10090688

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10090688-001A	BG-AirA-092010	1266 L	9/20/2010 8:30:00 AM	9/24/2010
10090688-002A	BG-AirB-092010	840 L	9/20/2010 5:00:00 PM	9/24/2010
10090688-003A	BG-AirD-092010	1440 L	9/20/2010 5:00:00 PM	9/24/2010
10090688-004A	BG-AirE-092010	1446 L	9/20/2010 5:00:00 PM	9/24/2010
10090688-005A	BG-AirA-092110	1089 L	9/21/2010 8:00:00 AM	9/24/2010
10090688-006A	BG-AirB-092110	1062 L	9/21/2010 5:00:00 PM	9/24/2010
10090688-007A	BG-AirD-092110	1050 L	9/21/2010 5:00:00 PM	9/24/2010
10090688-008A	BG-AirE-092110	1029 L	9/21/2010 5:00:00 PM	9/24/2010
10090688-009A	BG-AirBlank1-092110			9/24/2010

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2010
Date Printed: September 29, 2010

Client: Weston Solutions
Project: Bautsch-Gray Mine RV, Galena, IL **Lab Order:** 10090688

Lab ID: 10090688-001 **Collection Date:** 9/20/2010 8:30:00 AM
Client Sample ID: BG-AirA-092010 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **9/28/2010**		Analyst: **JG**
Arsenic	ND	0.79		µg/m³	10	9/28/2010
Lead	ND	0.79		µg/m³	10	9/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **9/24/2010**		Analyst: **JP**
Particulates in Air	ND	0.16	*	mg/m³	1	9/27/2010

Lab ID: 10090688-002 **Collection Date:** 9/20/2010 5:00:00 PM
Client Sample ID: BG-AirB-092010 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **9/28/2010**		Analyst: **JG**
Arsenic	ND	1.2		µg/m³	10	9/28/2010
Lead	ND	1.2		µg/m³	10	9/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **9/24/2010**		Analyst: **JP**
Particulates in Air	ND	0.24	*	mg/m³	1	9/27/2010

Lab ID: 10090688-003 **Collection Date:** 9/20/2010 5:00:00 PM
Client Sample ID: BG-AirD-092010 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **9/28/2010**		Analyst: **JG**
Arsenic	ND	0.69		µg/m³	10	9/28/2010
Lead	ND	0.69		µg/m³	10	9/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **9/24/2010**		Analyst: **JP**
Particulates in Air	ND	0.14	*	mg/m³	1	9/27/2010

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2010
Date Printed: September 29, 2010

Client: Weston Solutions
Project: Bautsch-Gray Mine RV, Galena, IL **Lab Order:** 10090688

Lab ID: 10090688-004 **Collection Date:** 9/20/2010 5:00:00 PM
Client Sample ID: BG-AirE-092010 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **9/28/2010**		Analyst: **JG**
Arsenic	ND	0.69		µg/m³	10	9/28/2010
Lead	ND	0.69		µg/m³	10	9/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **9/24/2010**		Analyst: **JP**
Particulates in Air	ND	0.14	*	mg/m³	1	9/27/2010

Lab ID: 10090688-005 **Collection Date:** 9/21/2010 8:00:00 AM
Client Sample ID: BG-AirA-092110 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **9/28/2010**		Analyst: **JG**
Arsenic	ND	0.92		µg/m³	10	9/28/2010
Lead	ND	0.92		µg/m³	10	9/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **9/24/2010**		Analyst: **JP**
Particulates in Air	ND	0.18	*	mg/m³	1	9/27/2010

Lab ID: 10090688-006 **Collection Date:** 9/21/2010 5:00:00 PM
Client Sample ID: BG-AirB-092110 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **9/28/2010**		Analyst: **JG**
Arsenic	ND	0.94		µg/m³	10	9/28/2010
Lead	ND	0.94		µg/m³	10	9/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **9/24/2010**		Analyst: **JP**
Particulates in Air	ND	0.19	*	mg/m³	1	9/27/2010

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2010
Date Printed: September 29, 2010

Client: Weston Solutions
Project: Bautsch-Gray Mine RV, Galena, IL **Lab Order:** 10090688

Lab ID: 10090688-007 **Collection Date:** 9/21/2010 5:00:00 PM
Client Sample ID: BG-AirD-092110 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **9/28/2010**		Analyst: **JG**
Arsenic	ND	0.95		µg/m³	10	9/28/2010
Lead	ND	0.95		µg/m³	10	9/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **9/24/2010**		Analyst: **JP**
Particulates in Air	ND	0.19	*	mg/m³	1	9/27/2010

Lab ID: 10090688-008 **Collection Date:** 9/21/2010 5:00:00 PM
Client Sample ID: BG-AirE-092110 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **9/28/2010**		Analyst: **JG**
Arsenic	ND	0.97		µg/m³	10	9/28/2010
Lead	ND	0.97		µg/m³	10	9/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **9/24/2010**		Analyst: **JP**
Particulates in Air	ND	0.19	*	mg/m³	1	9/27/2010

Lab ID: 10090688-009 **Collection Date:**
Client Sample ID: BG-AirBlank1-092110 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **9/28/2010**		Analyst: **JG**
Arsenic	ND	1		µg/filter	10	9/28/2010
Lead	ND	1		µg/filter	10	9/28/2010
Particulates in Air	**NIOSH0500**			Prep Date: **9/24/2010**		Analyst: **JP**
Particulates in Air	ND	0.2	*	mg/filter	1	9/27/2010

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com AIHA, NVLAP and NELAP accredited

CHAIN OF CUSTODY RECORD

Nº: 833612 Page: 1 of 1

Company: WESTON SOLUTIONS
Project Number: Client Tracking No.:
Project Name: BAUTSCH-GRAY MINE RV
Project Location: GALENA, IL
Sampler(s): JEFF BRYNIARSKI
Report To: JEFF BRYNIARSKI Phone: 708 284-2490
Fax:
QC Level: 1 ___ 2 X 3 ___ 4 ___ e-mail: JEFF.BRYNIARSKI@WESTONSOLUTIONS.COM

P.O. No.:
Quote No.:

Turn Around: STANDARD
Results Needed: am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	Lead & Arsenic (NIOSH 7300)	Total Particulates (NIOSH 0500)	Remarks: TOTAL VOLUME (L)	Lab No.:
BG-AIR A-092010	09/20/10	08:30	AIR	X		A	1	X	X	1266	001
BG-AIR B-092010	↓	17:00	↓	X		A	1	X	X	840	002
BG-AIR D-092010	↓	↓	↓	X		A	1	X	X	1490	003
BG-AIR E-092010	↓	↓	↓	X		A	1	X	X	1446	004
BG-AIR A 092110	09/21/10	08:00	AIR	X		A	1	X	X	1087	005
BG-AIR B-092110	↓	17:00	↓	X		A	1	X	X	1002	006
BG-AIR D-092110	↓	↓	↓	X		A	1	X	X	1050	007
BG-AIR E-092110	↓	↓	↓	X		A	1	X	X	1021	008
BG-AIR BLANK 092110	—	—	AIR	X		A	1	X	X	—	009

Relinquished by: (Signature) [signature]	Date/Time: 09/23/10 16:00
Received by: (Signature) [signature]	Date/Time: 9/24/10 930
Relinquished by: (Signature)	Date/Time:
Received by: (Signature)	Date/Time:
Relinquished by: (Signature)	Date/Time:
Received by: (Signature)	Date/Time:

Comments:

Preservation Code: A = None B = HNO_3 C = NaOH D = H_2SO_4 E = HCl F = 5035/EnCore G = Other

Laboratory Work Order No.: 10090688

Received on Ice: Yes ☐ No ☒

Temperature: Ambient °C

STAT Analysis Corporation

Sample Receipt Checklist

Client Name WESTON CHICAGO

Date and Time Received: 9/24/2010 9:30:00 AM

Work Order Number 10090688

Received by: CDF

Checklist completed by: Signature 9/24/10 Date

Reviewed by: CG 9/27/10 Initials Date

Matrix: Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels/containers?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples pH checked?	Yes ☐	No ☒	Checked by:
Water - Samples properly preserved?	Yes ☒	No ☒	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted: Date contacted: Contacted by:

Response:

STAT Analysis Corporation

PREP BATCH REPORT

Prep Start Date: **9/28/2010 3:02:00 P**
Prep End Date:

Prep Factor Units: **mL /**

Prep Batch **51848** Prep Code: **M_AIR_PR** Technician: **JMS**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IRBA1 9/28/10			1	0	0	0.01	0.010	9/28/2010	9/28/2010
IMBA1 9/28/10			1	0	0	0.01	0.010	9/28/2010	9/28/2010
ILCSA1 9/28/10			1	0	0	0.01	0.010	9/28/2010	9/28/2010
ILCSDA1 9/28/10			1	0	0	0.01	0.010	9/28/2010	9/28/2010
10090688-001A	Air		1.266	0	0	0.01	0.008	9/28/2010	9/28/2010
10090688-002A	Air		0.84	0	0	0.01	0.012	9/28/2010	9/28/2010
10090688-003A	Air		1.44	0	0	0.01	0.007	9/28/2010	9/28/2010
10090688-004A	Air		1.446	0	0	0.01	0.007	9/28/2010	9/28/2010
10090688-005A	Air		1.089	0	0	0.01	0.009	9/28/2010	9/28/2010
10090688-006A	Air		1.062	0	0	0.01	0.009	9/28/2010	9/28/2010
10090688-007A	Air		1.05	0	0	0.01	0.010	9/28/2010	9/28/2010
10090688-008A	Air		1.029	0	0	0.01	0.010	9/28/2010	9/28/2010
10090688-009A	Air		1	0	0	0.01	0.010	9/28/2010	9/28/2010

CLIENT: Weston Solutions
Work Order: 10090688
Project: Bautsch-Gray Mine RV, Galena, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 51848

Sample ID	IRBA1 9/28/10	SampType:	MBLK	TestCode:	M_AIR	Units:	µg	Prep Date:	9/28/2010	Run ID:	ICPMS-2_100928A
Client ID:	ZZZZZ	Batch ID:	51848	TestNo:	N7300			Analysis Date:	9/28/2010	SeqNo:	1760106

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	1.0									
Lead	0.0095	1.0									J

Sample ID	IMBA1 9/28/10	SampType:	MBLK	TestCode:	M_AIR	Units:	µg/filter	Prep Date:	9/28/2010	Run ID:	ICPMS-2_100928A
Client ID:	ZZZZZ	Batch ID:	51848	TestNo:	N7300			Analysis Date:	9/28/2010	SeqNo:	1760107

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	1.0									
Lead	0.0101	1.0									J

Sample ID	ILCSA1 9/28/10	SampType:	LCS	TestCode:	M_AIR	Units:	µg/filter	Prep Date:	9/28/2010	Run ID:	ICPMS-2_100928A
Client ID:	ZZZZZ	Batch ID:	51848	TestNo:	N7300			Analysis Date:	9/28/2010	SeqNo:	1760108

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.594	1.0	5	0	91.9	80	120	0	0		
Lead	4.642	1.0	5	0.0101	92.6	80	120	0	0		

Sample ID	ILCSDA1 9/28/10	SampType:	LCSD	TestCode:	M_AIR	Units:	µg/filter	Prep Date:	9/28/2010	Run ID:	ICPMS-2_100928A
Client ID:	ZZZZZ	Batch ID:	51848	TestNo:	N7300			Analysis Date:	9/28/2010	SeqNo:	1760109

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.756	1.0	5	0	95.1	80	120	4.594	3.47	20	
Lead	4.841	1.0	5	0.0101	96.6	80	120	4.642	4.20	20	

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blank
E - Value above quantitation range

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001;AIHA 101160; NVLAP LabCode 101202-0

September 28, 2010

Weston Solutions
20 North Wacker Drive
Suite 1210
Chicago, IL 60606
Telephone: (312) 424-3339
Fax: (312) 424-3330

RE: Bautsch-Gray Mine RV, Galena, IL STAT Project No: 10090686

Dear Lisa Graczyk:

STAT Analysis received 4 samples for the referenced project on 9/24/2010 9:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met AIHA, EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. Sample acceptance criteria has been met unless noted in the Case Narrative or Sample Receipt Checklist. If required, an estimate of uncertainty for the analyses can be provided. Sample results have not been corrected for contamination based on field blank or other analytical blank, unless noted in the case narrative.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

Catia Giannini
Project Manager

STAT Analysis Corporation

Date: September 28, 2010

Client: Weston Solutions
Project: Bautsch-Gray Mine RV, Galena, IL
Lab Order: 10090686

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10090686-001A	BG-AirA-091710	1647 L	9/17/2010 5:00:00 PM	9/24/2010
10090686-002A	BG-AirB-091710	1473 L	9/17/2010 5:00:00 PM	9/24/2010
10090686-003A	BG-AirC-091710	840 L	9/17/2010 5:00:00 PM	9/24/2010
10090686-004A	BG-AirD-091710	1599 L	9/17/2010 5:00:00 PM	9/24/2010

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: September 28, 2010
Date Printed: September 28, 2010

Client: Weston Solutions
Project: Bautsch-Gray Mine RV, Galena, IL **Lab Order:** 10090686

Lab ID: 10090686-001 **Collection Date:** 9/17/2010 5:00:00 PM
Client Sample ID: BG-AirA-091710 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **9/27/2010**		Analyst: **JG**
Arsenic	ND	0.61		µg/m³	10	9/27/2010
Lead	ND	0.61		µg/m³	10	9/27/2010
Particulates in Air	**NIOSH0500**			Prep Date: **9/24/2010**		Analyst: **JP**
Particulates in Air	ND	0.12	*	mg/m³	1	9/27/2010

Lab ID: 10090686-002 **Collection Date:** 9/17/2010 5:00:00 PM
Client Sample ID: BG-AirB-091710 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **9/27/2010**		Analyst: **JG**
Arsenic	ND	0.68		µg/m³	10	9/27/2010
Lead	ND	0.68		µg/m³	10	9/27/2010
Particulates in Air	**NIOSH0500**			Prep Date: **9/24/2010**		Analyst: **JP**
Particulates in Air	ND	0.14	*	mg/m³	1	9/27/2010

Lab ID: 10090686-003 **Collection Date:** 9/17/2010 5:00:00 PM
Client Sample ID: BG-AirC-091710 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **9/27/2010**		Analyst: **JG**
Arsenic	ND	1.2		µg/m³	10	9/27/2010
Lead	ND	1.2		µg/m³	10	9/27/2010
Particulates in Air	**NIOSH0500**			Prep Date: **9/24/2010**		Analyst: **JP**
Particulates in Air	ND	0.24	*	mg/m³	1	9/27/2010

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: September 28, 2010
Date Printed: September 28, 2010

Client: Weston Solutions
Project: Bautsch-Gray Mine RV, Galena, IL **Lab Order:** 10090686

Lab ID: 10090686-004 **Collection Date:** 9/17/2010 5:00:00 PM
Client Sample ID: BG-AirD-091710 **Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals in Air	**N7300**			Prep Date: **9/27/2010**		Analyst: **JG**
Arsenic	ND	0.63		µg/m³	10	9/27/2010
Lead	ND	0.63		µg/m³	10	9/27/2010
Particulates in Air	**NIOSH0500**			Prep Date: **9/24/2010**		Analyst: **JP**
Particulates in Air	ND	0.13	*	mg/m³	1	9/27/2010

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com AIHA, NVLAP and NELAP accredited

CHAIN OF CUSTODY RECORD

Nº: 833611 Page: 1 of 1

Company: WESTON SOLUTIONS
Project Number: Client Tracking No.:
Project Name: BAUSCH GRAY MINE RV
Project Location: GALENA, IL
Sampler(s): JEFF BEAN... (708 ...)
Report To: LISA ... Phone:
Fax:
QC Level: 1 ___ 2 X 3 ___ 4 ___ e-mail:
P.O. No.:
Quote No.:

Turn Around:
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	LEAD & ARSENIC (NIOSH 7300)	TOTAL PARTICULATES (NIOSH 0500)	Remarks	Lab No.:
BG-AIRA-091710	09/17/10	0800-1700	5 µm FILTER	x		A	1	x	x	TOTAL AIR VOLUME 1447L	001
BG-AIRB-091710	↓	↓	↓	x		↓	↓	x	x	" 1473L	002
BG-AIRC-091710	↓	↓	↓	x		↓	↓	x	x	" 840L	003
BG-AIRD-091710	↓	↓	↓	x		↓	↓	x	x	" 1544L	004

Relinquished by: (Signature) [signature]	Date/Time: 09/19/10 20:30	
Received by: (Signature) [signature]	Date/Time: 9/20/10 0700	
Relinquished by: (Signature) [signature]	Date/Time: 9/23/10 1530	
Received by: (Signature) [signature]	Date/Time: 9/24/10 1930	
Relinquished by: (Signature)	Date/Time:	
Received by: (Signature)	Date/Time:	

Comments: 24-hour T.A.T.

Preservation Code: A = None B = HNO_3 C = NaOH D = H_2SO_4 E = HCl F = 5035/EnCore G = Other

Laboratory Work Order No.: 10090686

Received on Ice: Yes [ ] No [X]

Temperature: Ambient °C

STAT Analysis Corporation

Sample Receipt Checklist

Client Name WESTON CHICAGO

Date and Time Received: 9/24/2010 9:30:00 AM

Work Order Number 10090686

Received by: CDF

Checklist completed by: Signature 9/24/10 Date

Reviewed by: CE 9/27/10 Initials Date

Matrix: Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels/containers?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples pH checked?	Yes ☐	No ☐	Checked by:
Water - Samples properly preserved?	Yes ☐	No ☐	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted: Date contacted: Contacted by:

Response:

STAT Analysis Corporation

PREP BATCH REPORT

Prep Start Date: **9/27/2010 1:43:27 P**
Prep End Date: **9/27/2010 2:02:00 P**

Prep Batch **51821** Prep Code: **M_AIR_PR** Technician: **JMS**

Prep Factor Units: **mL /**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IRBA1 9/27/10			1	0	0	0.01	0.010	9/27/2010	9/27/2010
IMBA1 9/27/10			1	0	0	0.01	0.010	9/27/2010	9/27/2010
ILCSA1 9/27/10			1	0	0	0.01	0.010	9/27/2010	9/27/2010
ILCSDA1 9/27/10			1	0	0	0.01	0.010	9/27/2010	9/27/2010
10090686-001A	Air		1.647	0	0	0.01	0.006	9/27/2010	9/27/2010
10090686-002A	Air		1.473	0	0	0.01	0.007	9/27/2010	9/27/2010
10090686-003A	Air		0.84	0	0	0.01	0.012	9/27/2010	9/27/2010
10090686-004A	Air		1.599	0	0	0.01	0.006	9/27/2010	9/27/2010

CLIENT: Weston Solutions
Work Order: 10090686
Project: Bautsch-Gray Mine RV, Galena, IL

ANALYTICAL QC SUMMARY REPORT

BatchID: 51821

Sample ID	IRBA1 9/27/10	SampType:	MBLK	TestCode:	M_AIR	Units:	µg	Prep Date:	9/27/2010	Run ID:	ICPMS_100927A
Client ID:	ZZZZZ	Batch ID:	51821	TestNo:	N7300			Analysis Date:	9/27/2010	SeqNo:	1759191

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0279	1.0									J
Lead	ND	1.0									

Sample ID	IMBA1 9/27/10	SampType:	MBLK	TestCode:	M_AIR	Units:	µg/filter	Prep Date:	9/27/2010	Run ID:	ICPMS_100927A
Client ID:	ZZZZZ	Batch ID:	51821	TestNo:	N7300			Analysis Date:	9/27/2010	SeqNo:	1759192

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0319	1.0									J
Lead	ND	1.0									

Sample ID	ILCSA1 9/27/10	SampType:	LCS	TestCode:	M_AIR	Units:	µg/filter	Prep Date:	9/27/2010	Run ID:	ICPMS_100927A
Client ID:	ZZZZZ	Batch ID:	51821	TestNo:	N7300			Analysis Date:	9/27/2010	SeqNo:	1759193

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.833	1.0	5	0.0319	96	80	120	0	0		
Lead	4.967	1.0	5	0	99.3	80	120	0	0		

Sample ID	ILCSDA1 9/27/10	SampType:	LCSD	TestCode:	M_AIR	Units:	µg/filter	Prep Date:	9/27/2010	Run ID:	ICPMS_100927A
Client ID:	ZZZZZ	Batch ID:	51821	TestNo:	N7300			Analysis Date:	9/27/2010	SeqNo:	1759194

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.781	1.0	5	0.0319	95	80	120	4.833	1.08	20	
Lead	4.892	1.0	5	0	97.8	80	120	4.967	1.52	20	

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blank
E - Value above quantitation range

ATTACHMENT G
RESIDENTIAL WELL WATER SAMPLING RESULTS

Table 1
Residential Well Water Sampling Results
Bautsch-Gray Mine Site
Jo Daviess County, Illinois

Parameter	Sample ID	U.S. EPA MCL	BG-RW01-080310	BG-RW01-080310D	BG-746-102810	BG-842-102810	BG-842-102810D	BG-861-102810D
	Sampling Date		8/3/2010	8/3/2010	10/28/2010	10/28/2010	10/28/2010	10/28/2010
	Sample Matrix		Water	Water	Water	Water	Water	Water
	Sampling Location		746 S. Blackjack Rd.	Field Duplicate of RW01	746 S. Blackjack Rd.	842 S. Blackjack Rd.	Field Duplicate of 842	861 S. Blackjack Rd.
pH	SU	6.5 to 8.5 [a]	NA	NA	NA	NA	NA	NA
Metals								
Arsenic, Total	mg/L	0.01	< 0.004	< 0.004	<0.010	<0.010	<0.010	<0.010
Cadmium, Total	mg/L	0.005	< 0.002	< 0.002	NA	NA	NA	NA
Copper, Total	mg/L	1.3	NA	NA	NA	NA	NA	NA
Lead, Total	mg/L	0.015	**0.0024**	**0.0025**	<0.0075	<0.0075	<0.0075	<0.0075

Parameter	Sample ID	U.S. EPA MCL	BG-746-071111	BG-746-071611	BG-746-TAP01-081111	BG-746-TAP01-081111D	BG-746-TAP02-081111	BG-746-TAP03-081111
	Sampling Date		7/11/2011	7/16/2011	8/3/2010	8/3/2010	8/3/2010	October 6, 2009
	Sample Matrix		Water	Water	Water	Water	Water	Water
	Sampling Location		746 S. Blackjack Rd.	746 S. Blackjack Rd.	746 S. Blackjack Rd.; kitchen sink faucet with treatment system off	Field Duplicate of TAP01	746 S. Blackjack Rd.; kitchen sink faucet with treatment system on	746 S. Blackjack Road; outside spigot
pH	SU	6.5 to 8.5 [a]	NA	**5.2**	**5.6**	**6.2**	**6.8**	**6.7**
Metals								
Arsenic, Total	mg/L	0.01	< 0.004	NA	NA	NA	NA	NA
Cadmium, Total	mg/L	0.005	NA	NA	NA	NA	NA	NA
Copper, Total	mg/L	1.3	NA	**0.065**	NA	NA	NA	NA
Lead, Total	mg/L	0.015	0.0052 U	NA	NA	NA	NA	NA

Notes:

Bolded results exceed the reporting limit.

Yellow highlighted results exceed the National Secondary Drinking Water Regulation standard.

< = Less than

MCL = Maximum Contaminant Level

mg/L = Milligram per liter

NA = Not analyzed

SU = Standard unit

U = Analyte not detected above the reporting limit

U.S. EPA = United States Environmental Protection Agency

a There is no MCL for pH. The limit specified is the National Secondary Drinking Water Regulation standard and is non-enforceable.